


STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING				FORM 3 AMENDED REPORT <input type="checkbox"/>		
APPLICATION FOR PERMIT TO DRILL				1. WELL NAME and NUMBER BONANZA 1023-6L2AS		
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				3. FIELD OR WILDCAT NATURAL BUTTES		
4. TYPE OF WELL Gas Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>				5. UNIT or COMMUNITIZATION AGREEMENT NAME		
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.				7. OPERATOR PHONE 720 929-6007		
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217				9. OPERATOR E-MAIL Kathy.SchneebeckDulnoan@anadarko.com		
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU38419		11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		
13. NAME OF SURFACE OWNER (if box 12 = 'fee')				14. SURFACE OWNER PHONE (if box 12 = 'fee')		
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')				16. SURFACE OWNER E-MAIL (if box 12 = 'fee')		
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')		18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>		19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>		
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	1861 FSL 1708 FWL	NESW	6	10.0 S	23.0 E	S
Top of Uppermost Producing Zone	2590 FSL 541 FWL	NWSW	6	10.0 S	23.0 E	S
At Total Depth	2590 FSL 541 FWL	NWSW	6	10.0 S	23.0 E	S
21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 541		23. NUMBER OF ACRES IN DRILLING UNIT 516		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 290		26. PROPOSED DEPTH MD: 8861 TVD: 8598		
27. ELEVATION - GROUND LEVEL 5221		28. BOND NUMBER WYB000291		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496		
ATTACHMENTS						
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES						
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER			<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN			
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)			<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER			
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)			<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP			
NAME Gina Becker		TITLE Regulatory Analyst II		PHONE 720 929-6086		
SIGNATURE		DATE 01/04/2011		EMAIL gina.becker@anadarko.com		
API NUMBER ASSIGNED 43047514690000		APPROVAL  Permit Manager				

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	8861		
Pipe	Grade	Length	Weight			
	Grade I-80 Buttrass	0	11.6			

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	11	8.625	0	2120		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	0	28.0			

Kerr-McGee Oil & Gas Onshore. L.P.**BONANZA 1023-6L2AS**

Surface:	1861 FSL / 1708 FWL	NESW	Lot
BHL:	2590 FSL / 541 FWL	NWSW	Lot 6

Section 6 T10S R23E

Unitah, Utah

Mineral Lease: UTU-38419

ONSHORE ORDER NO. 1**DRILLING PROGRAM**

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1247	
Birds Nest	1512	Water
Mahogany	1874	Water
Wasatch	4276	Gas
Mesaverde	6439	Gas
MVU2	7398	Gas
MVL1	7975	Gas
TVD	8598	
MD	8861	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

7. **Abnormal Conditions:**

Maximum anticipated bottom hole pressure calculated at 8,598' TVD, approximately equals 5,267 psi (calculated at 0.61 psi/foot).

Maximum anticipated surface pressure equals approximately 3,376 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

9. **Variances:**

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). The air rig operation utilizes a 5M BOPE when drilling. This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

Please refer to the attached Drilling Program.

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP					DATE	December 29, 2010	
WELL NAME	BONANZA 1023-6L2AS					TD	8,598'	8,861' MD
FIELD	Natural Buttes		COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION	5,219'
SURFACE LOCATION	NESW	1861 FSL	1708 FWL	Sec 6	T 10S	R 23E		
	Latitude:	39.975781	Longitude:	-109.372718		NAD 83		
BTM HOLE LOCATION	NWSW	2590 FSL	541 FWL	Sec 6	T 10S	R 23E		
	Latitude:	39.977767	Longitude:	-109.376872		NAD 83		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde							
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.							

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
			11"	8-5/8", 28#, IJ-55, LTC	Air mist
All water flows encountered while drilling will be reported to the appropriate agencies.					
	Green River @ Top of Birds Nest @ Mahogany @	1,247' 1,512' 1,874'			
	Preset f/ GL @ 2,120' MD				
Note: 11" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the actual depth of the loss zone.					
	Wasatch @	4,276'			
Mud logging program TBD Cased hole logging program from TD - surf csg			7-7/8"	4-1/2" 11.6# I-80 or equivalent BTC csg	Water / Fresh Water Mud 8.3-12.0 ppg
	Mverde @	6,439' TVD			
	MVU2 @	7,398' TVD			
	MVU1 @	7,975' TVD			
Max anticipated Mud required 12.0 ppg TD @					
		8,598' TVD 8,861' MD			



KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2,120	28.00	IJ-55	LTC	0.95	1.89	5.80
						7,780	6,350	278,000
PRODUCTION	4-1/2"	0 to 8,861	11.60	I-80	BTC	2.24	1.18	3.10

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above.

D.F. = 2.54

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 12.0 ppg)

0.22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoys.Fact. of water)

MASP 3,376 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

(Burst Assumptions: TD = 12.0 ppg)

0.61 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoys.Fact. of water)

MABHP 5,267 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
			+ 0.25 pps flocele				
Option 1							
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2	LEAD	1,620'	65/35 Poz + 6% Gel + 10 pps gilsonite	150	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	3,771'	Premium Lite II +0.25 pps	270	10%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	5,090'	50/50 Poz/G + 10% salt + 2% gel	980	10%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

Emile Goodwin / Perry Daughtrey

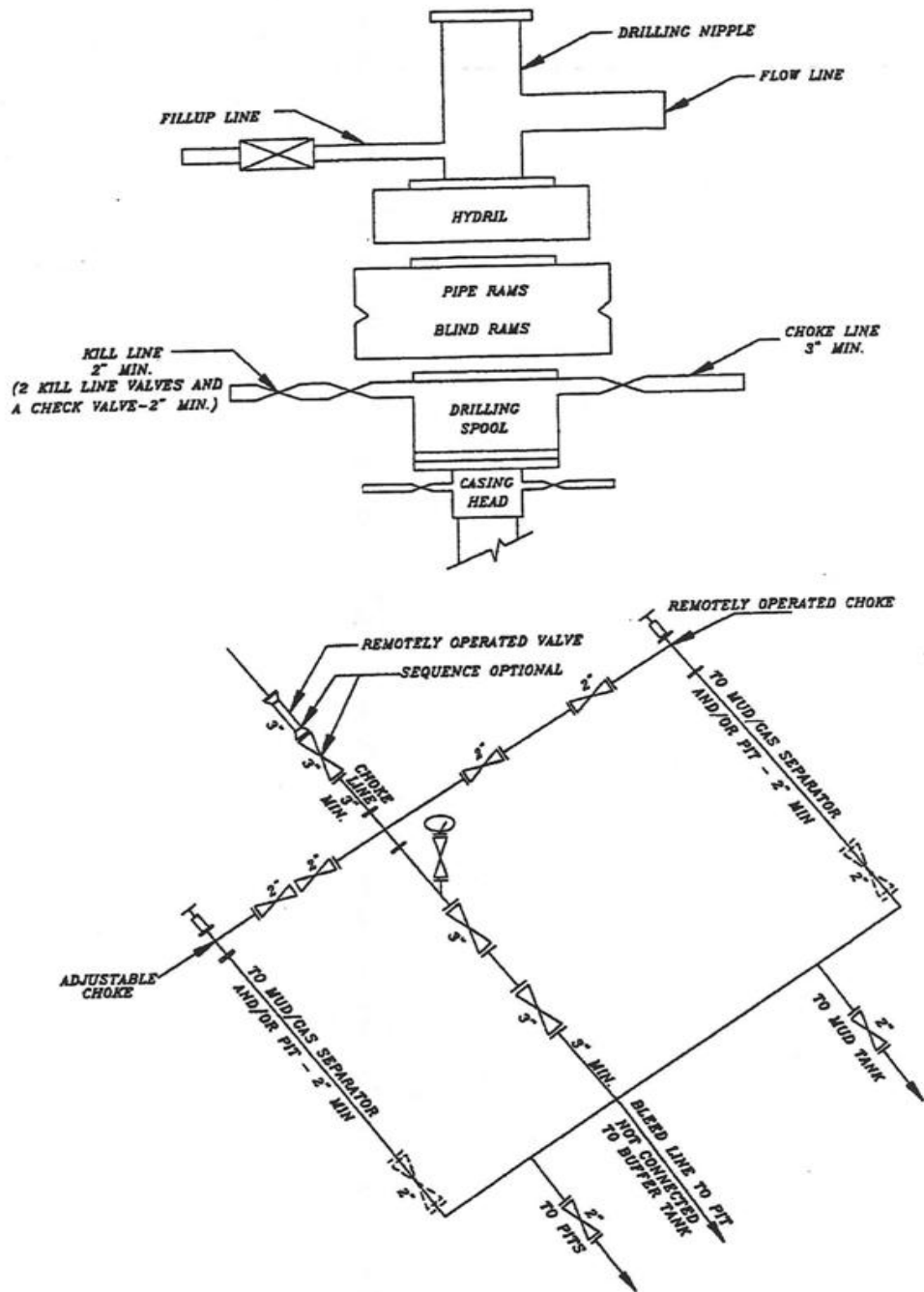
DATE:

DRILLING SUPERINTENDENT:

John Merkel / Lovel Young

DATE:

EXHIBIT A
BONANZA 1023-6L2AS

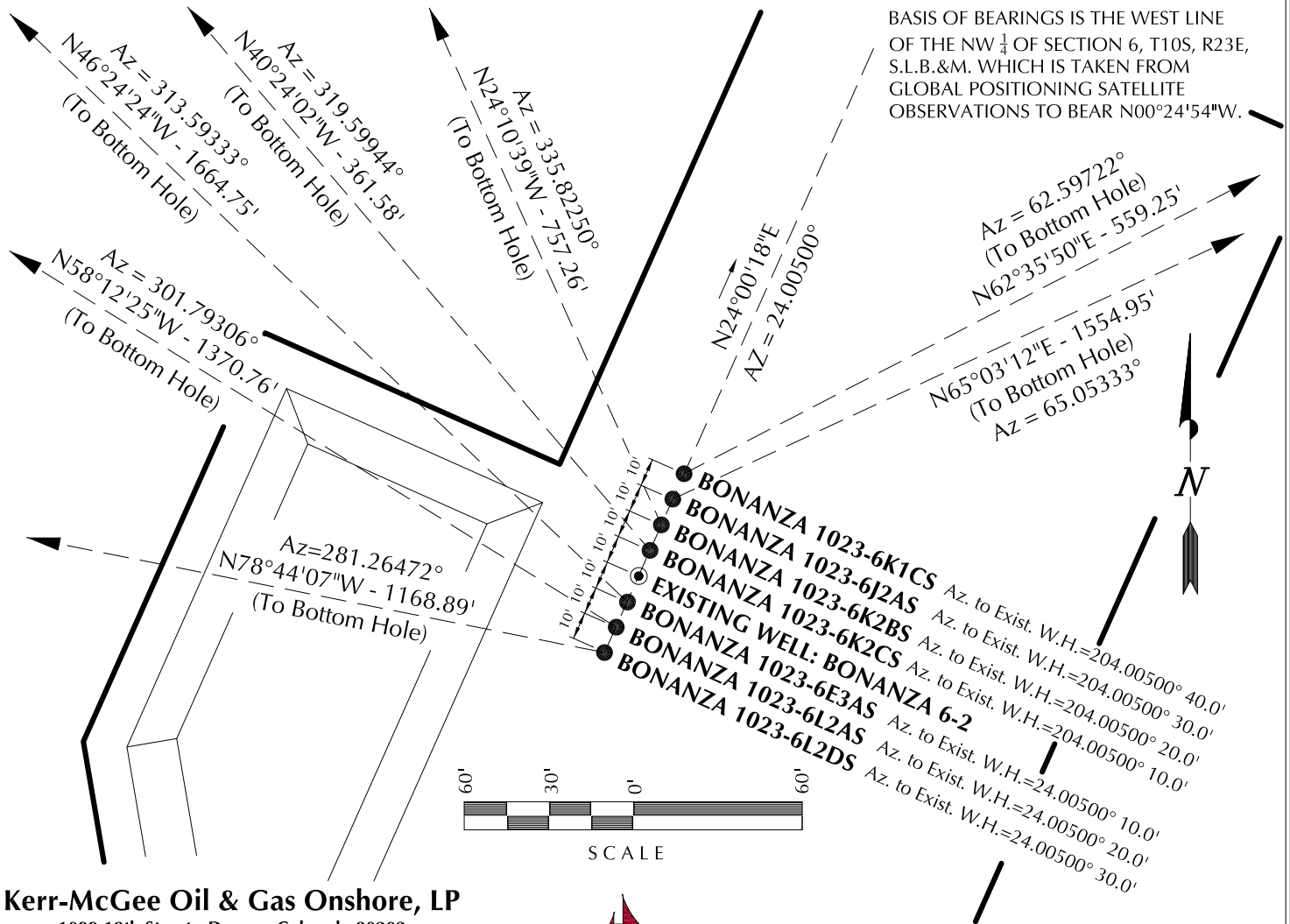


SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
BONANZA 1023-6K1CS	39°58'33.354"	109°22'21.473"	39°58'33.477"	109°22'19.026"	1915' FSL	39°58'35.892"	109°22'15.094"	39°58'36.015"	109°22'12.647"	2170' FSL
BONANZA 1023-6J2AS	39.975932°	109.372632°	39.975966°	109.371952°	1732' FWL	39.976637°	109.370859°	39.976671°	109.370180°	2228' FWL
BONANZA 1023-6J2AS	39°58'33.264"	109°22'21.526"	39°58'33.387"	109°22'19.078"	1907' FSL	39°58'39.729"	109°22'03.411"	39°58'39.852"	109°22'00.964"	2556' FSL
BONANZA 1023-6J2AS	39.975907°	109.372646°	39.975941°	109.371966°	1728' FWL	39.977703°	109.367614°	39.977737°	109.366935°	2100' FEL
BONANZA 1023-6K2BS	39°58'33.173"	109°22'21.578"	39°58'33.297"	109°22'19.130"	1897' FSL	39°58'40.002"	109°22'25.552"	39°58'40.125"	109°22'23.104"	2590' FSL
BONANZA 1023-6K2BS	39.975882°	109.372661°	39.975916°	109.371981°	1724' FWL	39.977778°	109.373764°	39.977813°	109.373084°	1412' FWL
BONANZA 1023-6K2CS	39°58'33.083"	109°22'21.630"	39°58'33.207"	109°22'19.183"	1888' FSL	39°58'35.806"	109°22'24.636"	39°58'35.930"	109°22'22.188"	2165' FSL
BONANZA 1023-6K2CS	39.975857°	109.372675°	39.975891°	109.371995°	1720' FWL	39.976613°	109.373510°	39.976647°	109.372830°	1485' FWL
BONANZA 1023-6E3AS	39°58'32.902"	109°22'21.734"	39°58'33.025"	109°22'19.286"	1870' FSL	39°58'44.254"	109°22'37.203"	39°58'44.378"	109°22'34.754"	2286' FNL
BONANZA 1023-6E3AS	39.975806°	109.372704°	39.975840°	109.372024°	1712' FWL	39.978960°	109.377001°	39.978994°	109.376321°	507' FWL
BONANZA 1023-6L2AS	39°58'32.813"	109°22'21.785"	39°58'32.936"	109°22'19.337"	1861' FSL	39°58'39.960"	109°22'36.738"	39°58'40.083"	109°22'34.289"	2590' FSL
BONANZA 1023-6L2AS	39.975781°	109.372718°	39.975816°	109.372038°	1708' FWL	39.977767°	109.376872°	39.977801°	109.376192°	541' FWL
BONANZA 1023-6L2DS	39°58'32.723"	109°22'21.839"	39°58'32.847"	109°22'19.392"	1852' FSL	39°58'34.991"	109°22'36.558"	39°58'35.114"	109°22'34.110"	2087' FSL
BONANZA 1023-6L2DS	39.975757°	109.372733°	39.975791°	109.372053°	1704' FWL	39.976386°	109.376822°	39.976421°	109.376142°	557' FWL
BONANZA 6-2	39°58'32.993"	109°22'21.682"	39°58'33.116"	109°22'19.234"	1879' FSL					
BONANZA 6-2	39.975831°	109.372689°	39.975866°	109.372010°	1716' FWL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
BONANZA 1023-6K1CS	257.4'	496.5'	BONANZA 1023-6J2AS	655.8'	1409.9'	BONANZA 1023-6K2BS	690.8'	-310.1'	BONANZA 1023-6K2CS	275.4'	-234.4'
WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST			
BONANZA 1023-6E3AS	1147.9'	-1205.7'	BONANZA 1023-6L2AS	722.2'	-1165.1'	BONANZA 1023-6L2DS	228.3'	-1146.4'			



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-6K**WELL PAD INTERFERENCE PLAT**

WELLS - BONANZA 1023-6K1CS, BONANZA 1023-6J2AS, BONANZA 1023-6K2BS, BONANZA 1023-6K2CS, BONANZA 1023-6E3AS, BONANZA 1023-6L2AS & BONANZA 1023-6L2DS
LOCATED IN SECTION 6, T10S, R23E, S.L.B.&M., UTAH COUNTY, UTAH.



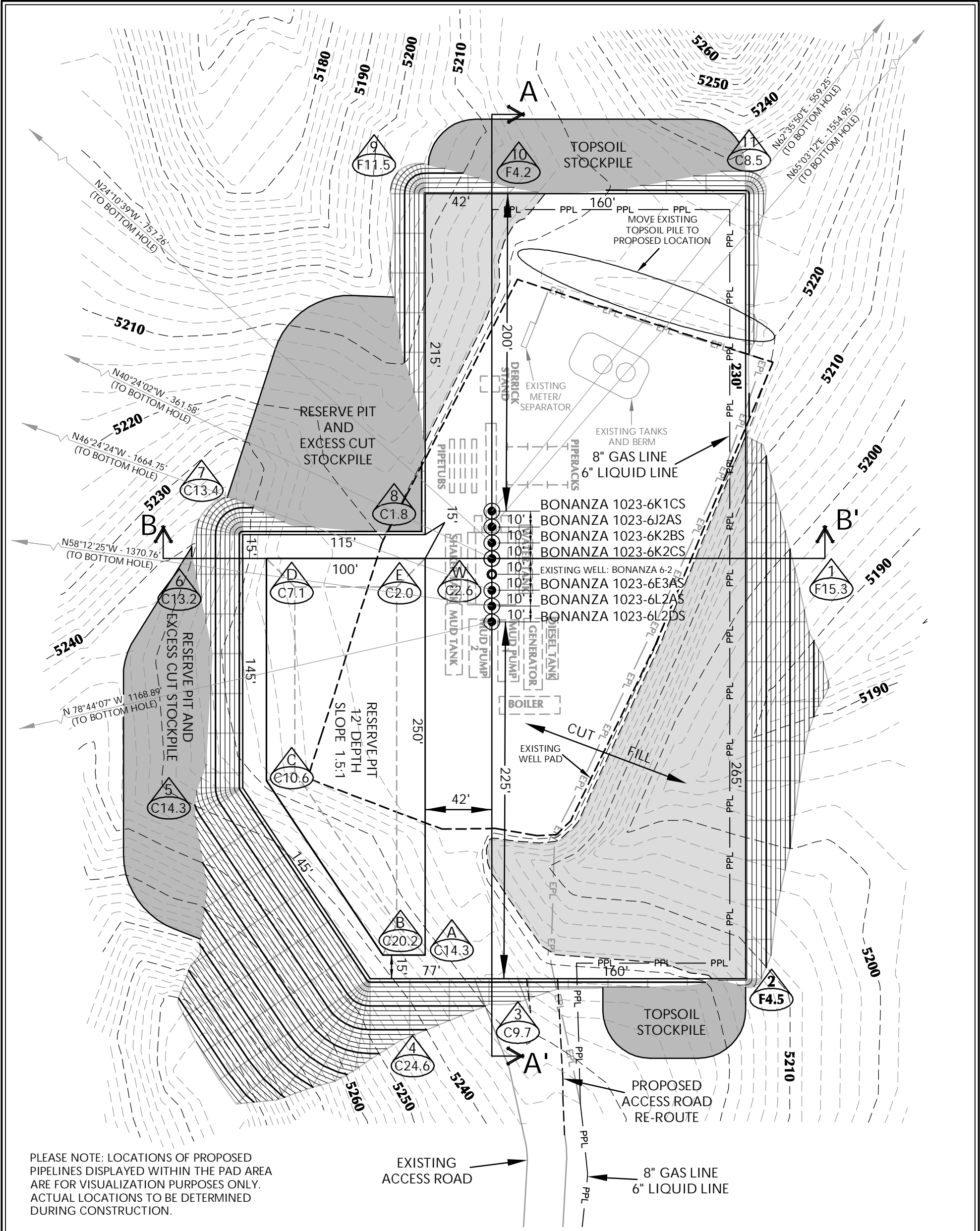
CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 03-08-10	SURVEYED BY: D.J.S.	SHEET NO: 8 8 OF 19
DATE DRAWN: 03-10-10	DRAWN BY: K.H.G.	
SCALE: 1" = 60'	Date Last Revised: 06-03-10 E.M.S.	



PLEASE NOTE: LOCATIONS OF PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

EXISTING ACCESS ROAD

8" GAS LINE
6" LIQUID LINE

WELL PAD - BONANZA 1023-6K DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5221.2'
FINISHED GRADE ELEVATION = 5218.6'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.84 ACRES
TOTAL DAMAGE AREA = 6.18 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-6K

WELL PAD - LOCATION LAYOUT
BONANZA 1023-6K1CS, BONANZA 1023-6J2AS,
BONANZA 1023-6K2BS, BONANZA 1023-6K2CS,
BONANZA 1023-6E3AS, BONANZA 1023-6L2AS &
BONANZA 1023-6L2DS
LOCATED IN SECTION 6, T10S, R23E,
S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 20,745 C.Y.
TOTAL FILL FOR WELL PAD = 18,389 C.Y.
TOPSOIL @ 6" DEPTH = 2,012 C.Y.
EXCESS MATERIAL = 2,356 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
+/- 6,910 CY
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 26,100 BARRELS

TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

WELL PAD LEGEND

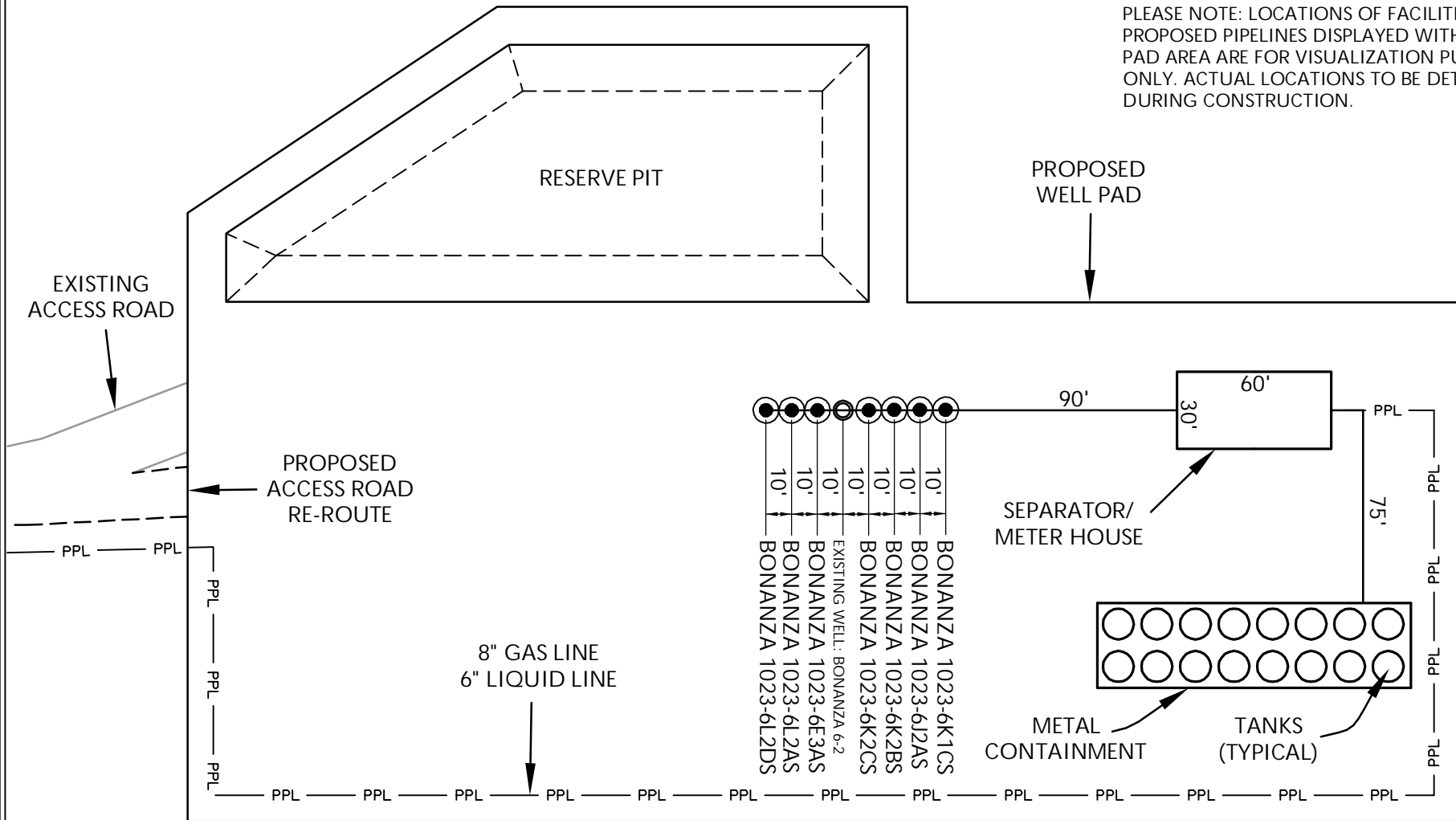
- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL PROPOSED PIPELINE
- EPL EXISTING PIPELINE



HORIZONTAL 0 30 60 1" = 60'
2' CONTOURS

Scale: 1"=60' Date: 4/7/10 SHEET NO:
REVISED: JID 8/6/10 9 9 OF 19

PLEASE NOTE: LOCATIONS OF FACILITIES AND PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-6K

WELL PAD - FACILITIES DIAGRAM
BONANZA 1023-6K1CS, BONANZA 1023-6J2AS,
BONANZA 1023-6K2BS, BONANZA 1023-6K2CS,
BONANZA 1023-6E3AS, BONANZA 1023-6L2AS &
BONANZA 1023-6L2DS
LOCATED IN SECTION 6, T10S, R23E,
S.L.B.&M., UINAH COUNTY, UTAH



CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE



HORIZONTAL 0 30' 60' 1" = 60'

TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

Scale: 1"=60'

Date: 4/7/10

SHEET NO:

REVISED:

JID
8/6/10

11

11 OF 19

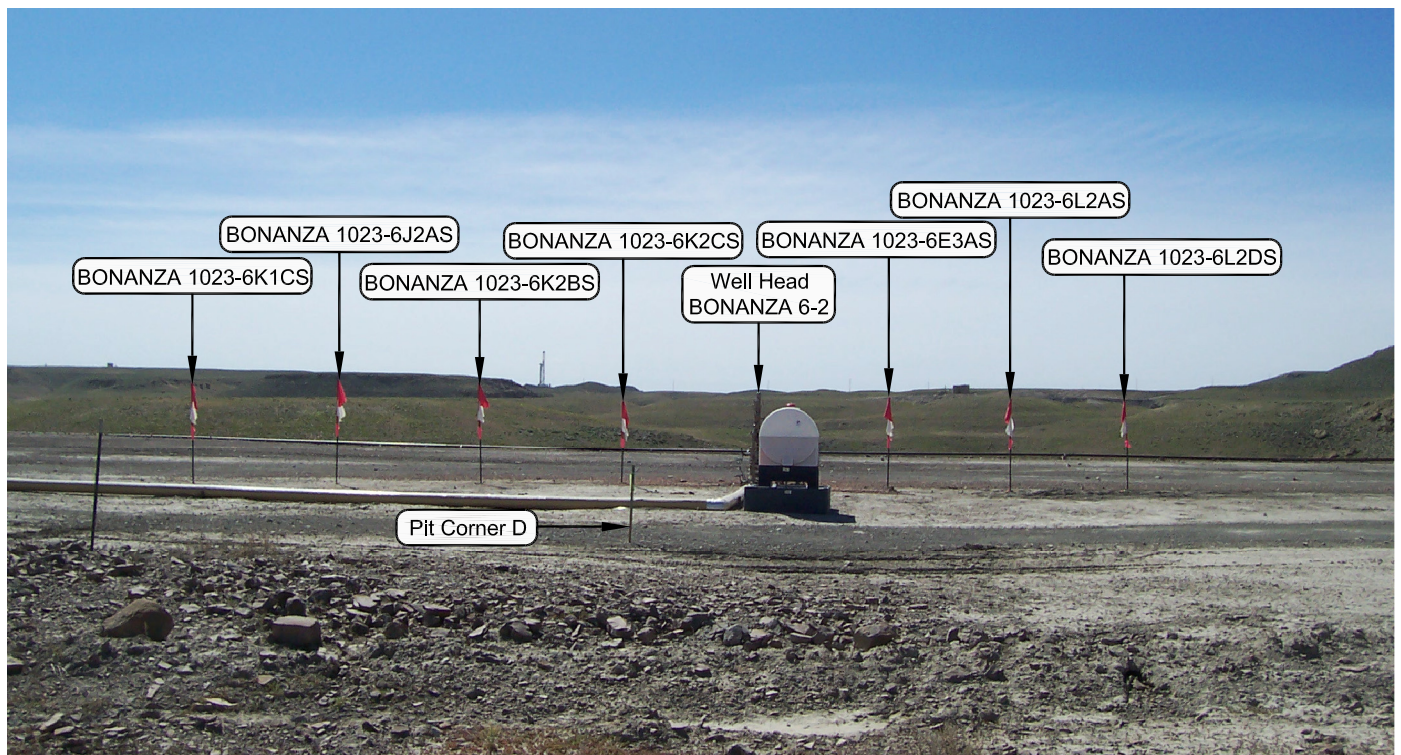


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKES

CAMERA ANGLE: SOUTHEASTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHEASTERLY

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-6K

LOCATION PHOTOS
BONANZA 1023-6K1CS, BONANZA 1023-6J2AS,
BONANZA 1023-6K2BS, BONANZA 1023-6K2CS,
BONANZA 1023-6E3AS, BONANZA 1023-6L2AS &
BONANZA 1023-6L2DS
LOCATED IN SECTION 6, T10S, R23E,
S.L.B.&M., UINTAH COUNTY, UTAH.



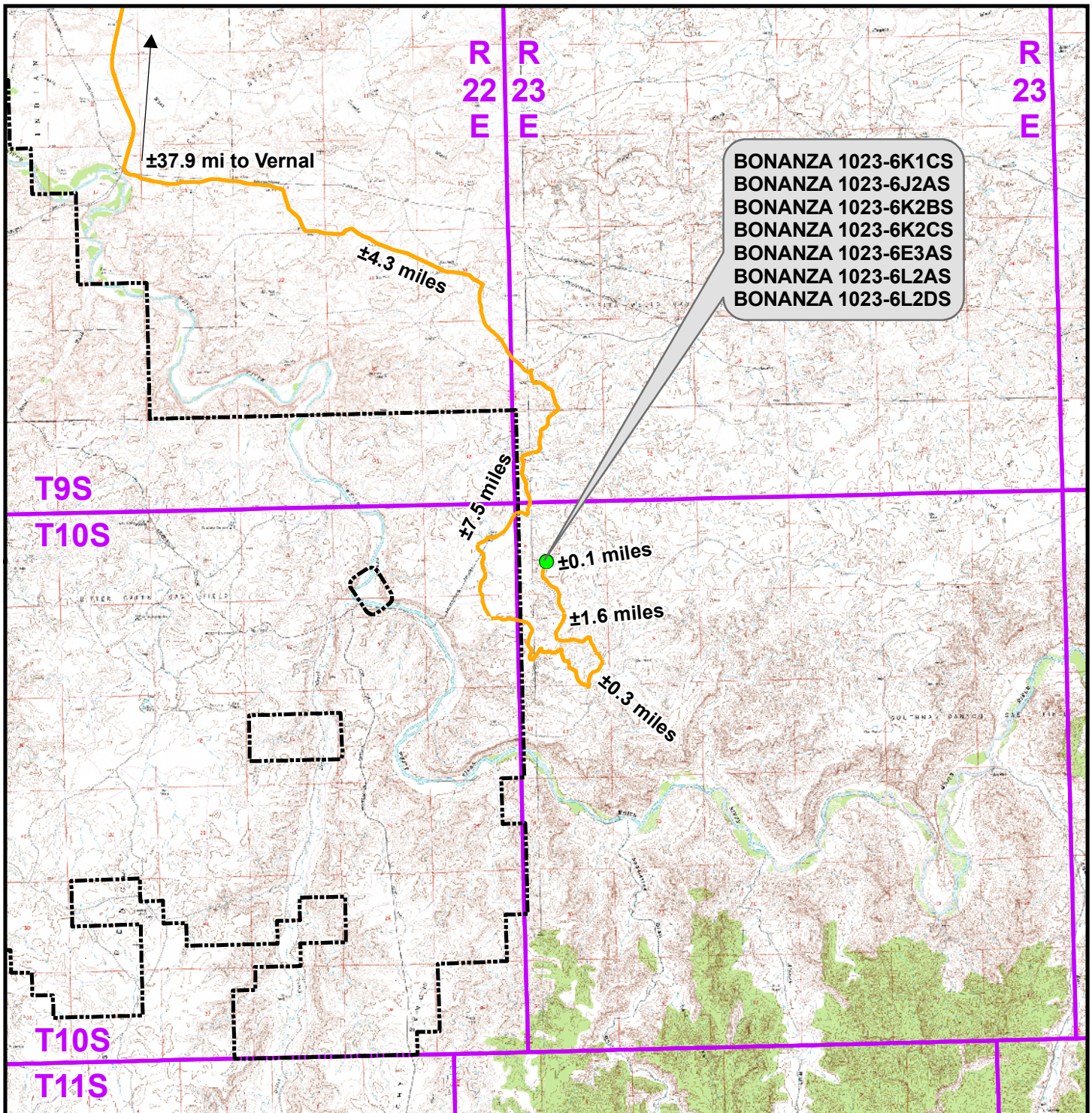
CONSULTING, LLC
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Fax 307-674-0182

TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 03-08-10	PHOTOS TAKEN BY: D.J.S.	SHEET NO: 12 12 OF 19
DATE DRAWN: 03-10-10	DRAWN BY: K.H.G.	
Date Last Revised: 06-03-10 E.M.S.		



Legend

- Proposed Well Location
- Natural Buttes Unit Boundary
- Access Route - Proposed

Distance From Well Pad - BONANZA 1023-6K To Unit Boundary: $\pm 1,704$ ft

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - BONANZA 1023-6K

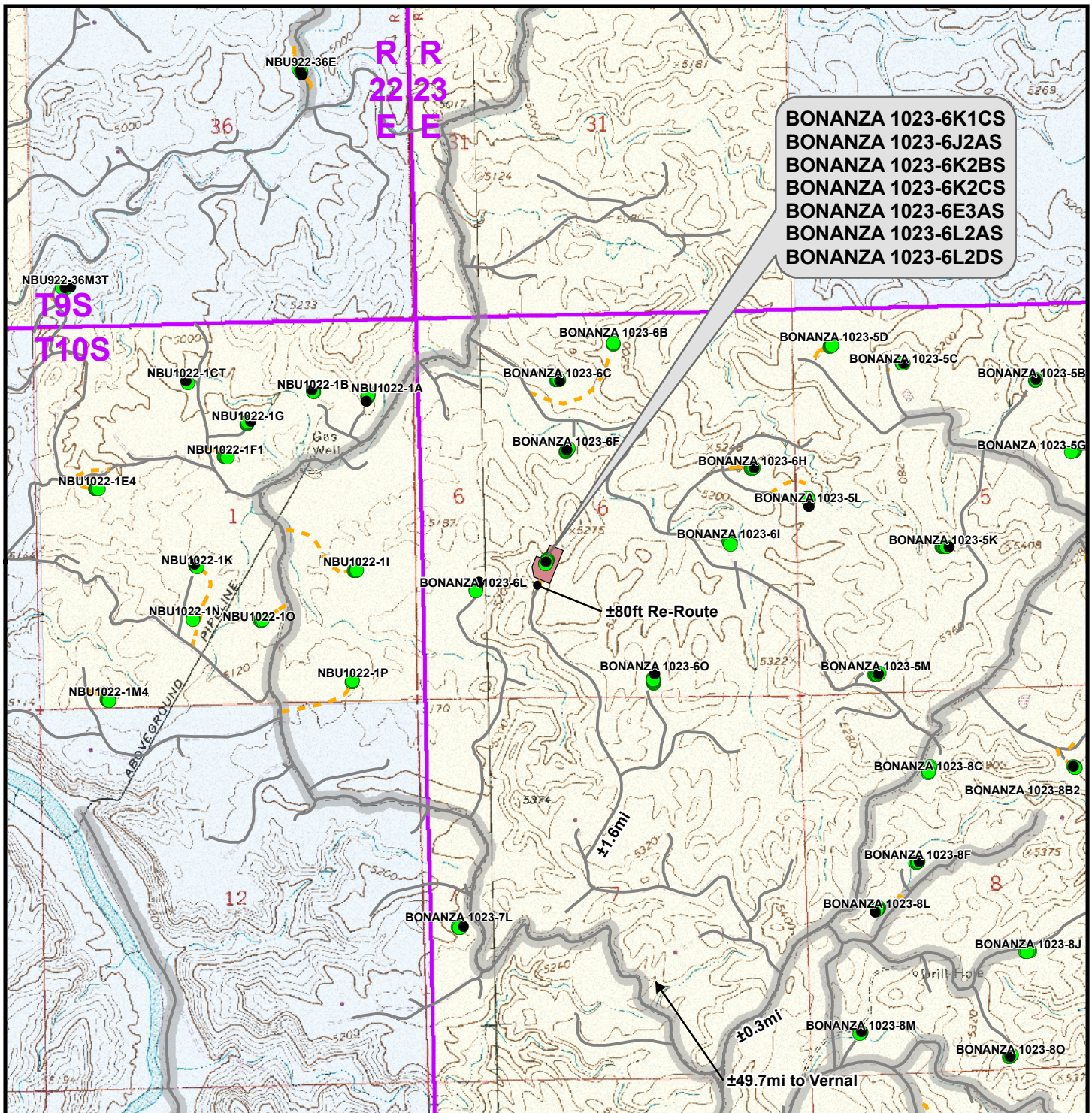
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BONANZA 1023-6K1CS, BONANZA 1023-6J2AS,
BONANZA 1023-6K2BS, BONANZA 1023-6K2CS,
BONANZA 1023-6E3AS, BONANZA 1023-6L2AS &
BONANZA 1023-6L2DS
LOCATED IN SECTION 6, T10S, R23E
S.L.B.&M., UTAH COUNTY, UTAH



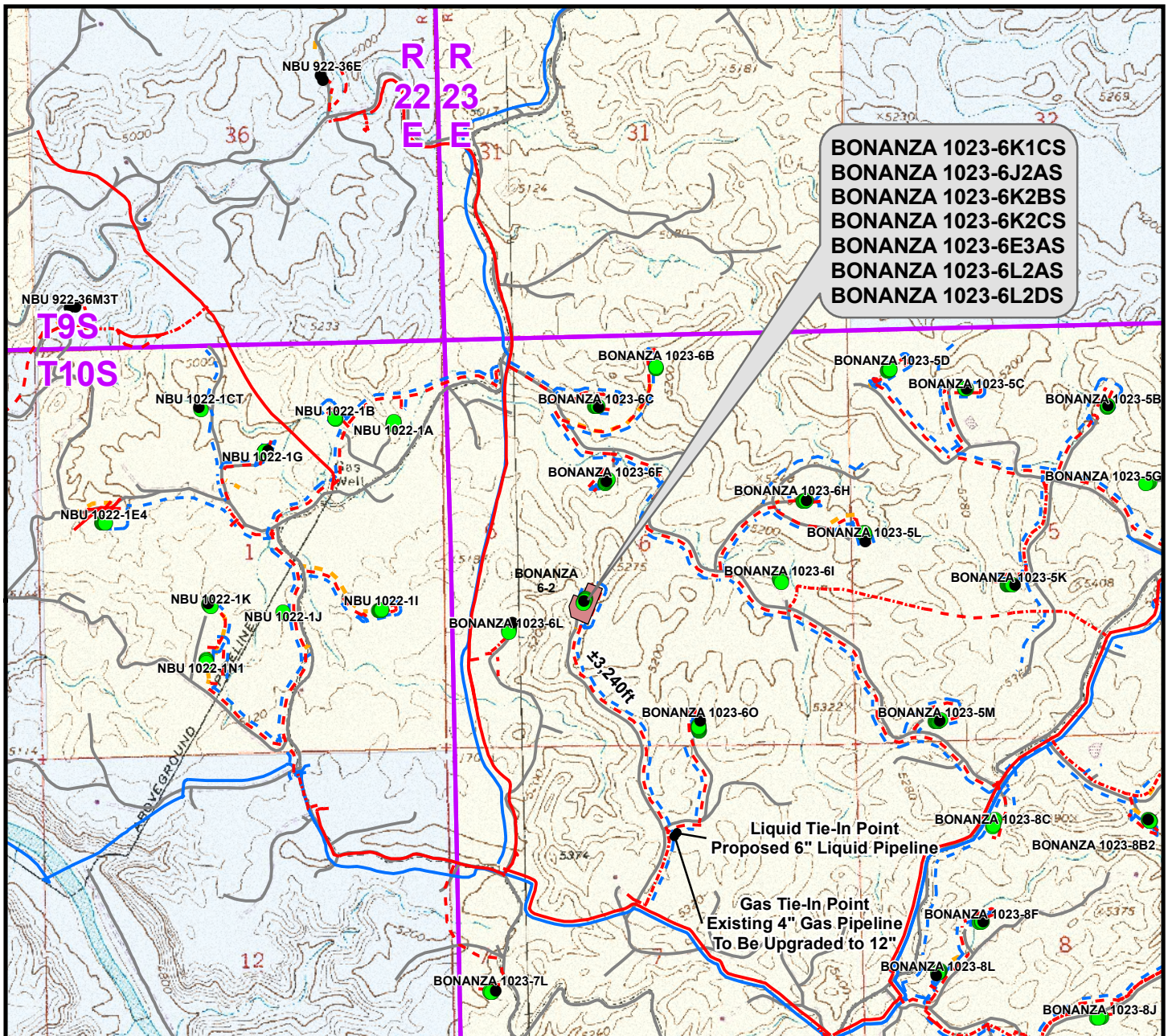
Scale: 1:100,000	NAD83 USP Central
Drawn: TL	Date: 14 Apr 2010
Revised: JID	Date: 6 Aug 2010

Sheet No:

13 13 of 19



Sheet No:
15 15 of 19



Proposed Liquid Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±820ft
Proposed 6" (Edge of Pad to 60 Intersection)	±3,240ft
TOTAL PROPOSED LIQUID PIPELINE =	±4,060ft

Proposed Gas Pipeline	Length
Proposed 8" (Meter House to Edge of Pad)	±820ft
Proposed 8" (Edge of Pad to 60 Intersection)	±3,240ft
TOTAL PROPOSED GAS PIPELINE =	±4,060ft

Legend

● Well - Proposed	- - - Gas Pipeline - Proposed	- - - Liquid Pipeline - Proposed	- - - Road - Proposed	■ Bureau of Land Management
● Well - Existing	- - - Gas Pipeline - To Be Upgraded	- - - Liquid Pipeline - To Be Upgraded	- - - Road - Existing	■ Indian Reservation
■ Well Pad	- - - Gas Pipeline - Existing	- - - Liquid Pipeline - Existing		■ State
				■ Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

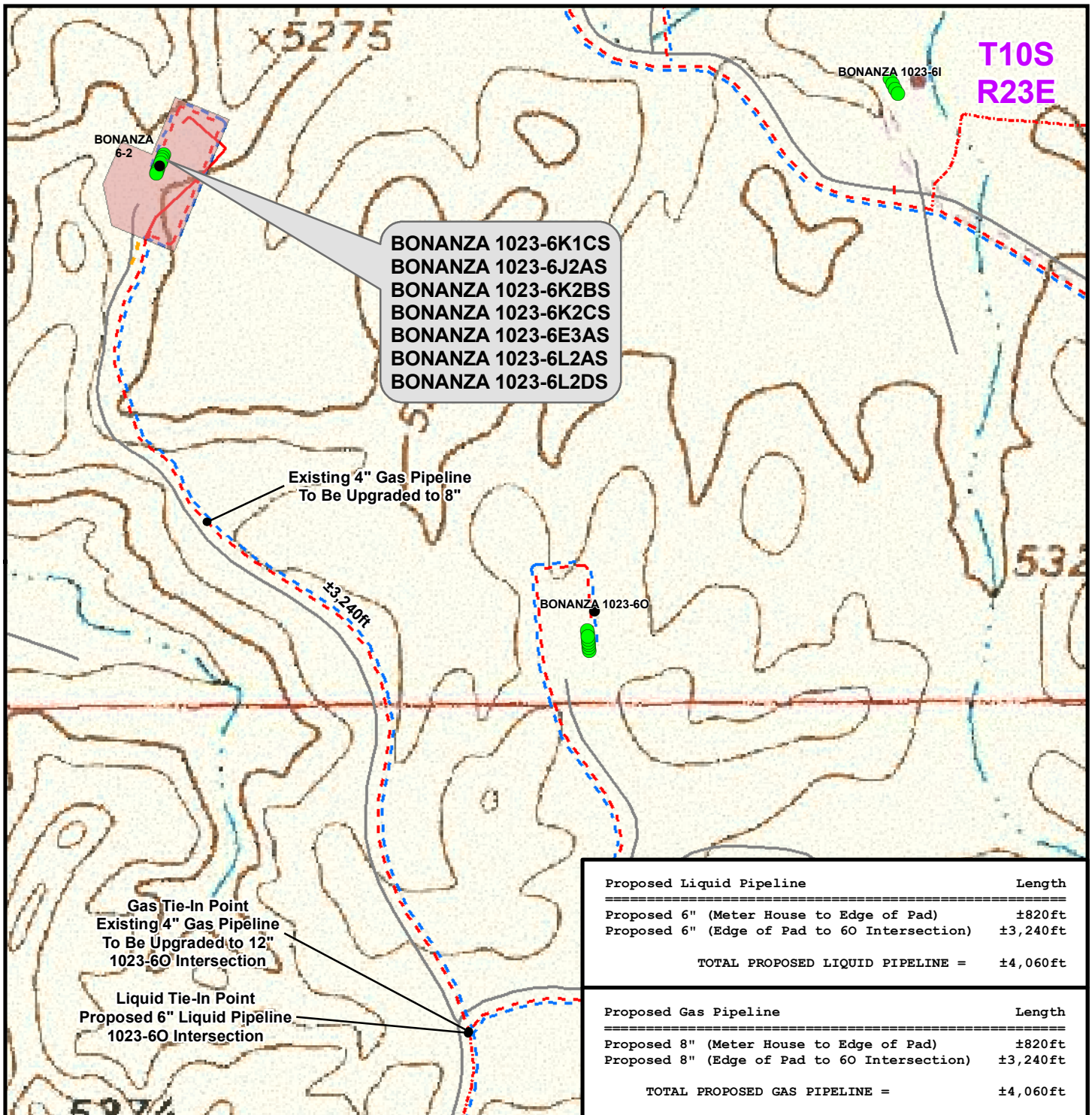
WELL PAD - BONANZA 1023-6K

TOPO D
BONANZA 1023-6K1CS, BONANZA 1023-6J2AS,
BONANZA 1023-6K2BS, BONANZA 1023-6K2CS,
BONANZA 1023-6E3AS, BONANZA 1023-6L2AS &
BONANZA 1023-6L2DS
LOCATED IN SECTION 6, T10S, R23E
S.L.B.&M., UTAH COUNTY, UTAH



Scale: 1" = 2,000ft	NAD83 USP Central
Drawn: TL	Date: 14 Apr 2010
Revised: CPS	Date: 15 Oct 2010

Sheet No:
16 16 of 19



Proposed Liquid Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±820ft
Proposed 6" (Edge of Pad to 60 Intersection)	±3,240ft
TOTAL PROPOSED LIQUID PIPELINE =	±4,060ft

Proposed Gas Pipeline	Length
Proposed 8" (Meter House to Edge of Pad)	±820ft
Proposed 8" (Edge of Pad to 60 Intersection)	±3,240ft
TOTAL PROPOSED GAS PIPELINE =	±4,060ft

Legend

- Well - Proposed
 --- Gas Pipeline - Proposed
 --- Liquid Pipeline - Proposed
 --- Road - Proposed
 Bureau of Land Management
- Well - Existing
 --- Gas Pipeline - To Be Upgraded
 --- Liquid Pipeline - To Be Upgraded
 --- Road - Existing
 Indian Reservation
- Well Pad
 --- Gas Pipeline - Existing
 --- Liquid Pipeline - Existing
 State
- Private

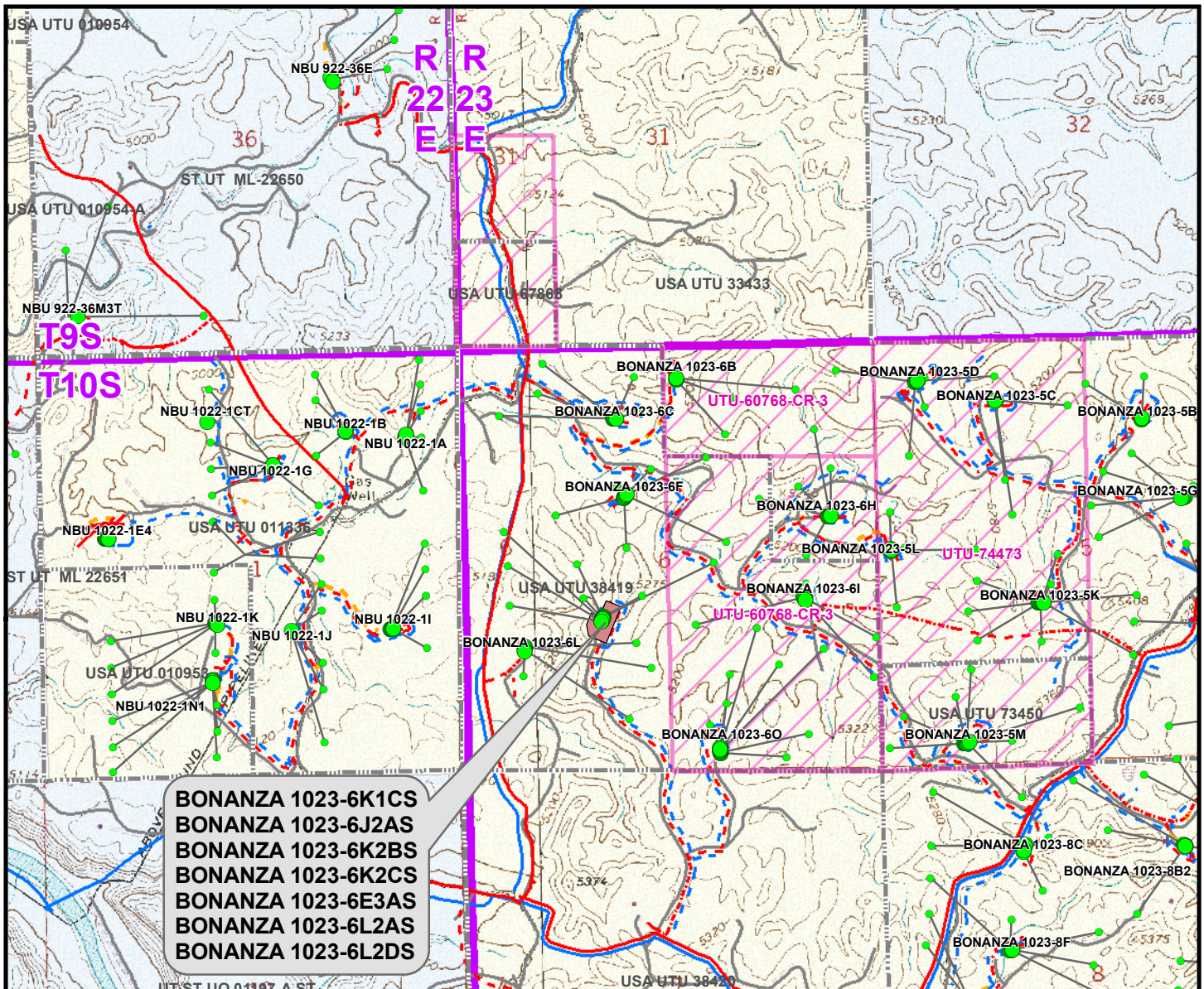
Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

WELL PAD - BONANZA 1023-6K

TOPO D2 (PAD & PIPELINE DETAIL)
 BONANZA 1023-6K1CS, BONANZA 1023-6J2AS,
 BONANZA 1023-6K2BS, BONANZA 1023-6K2CS,
 BONANZA 1023-6E3AS, BONANZA 1023-6L2AS &
 BONANZA 1023-6L2DS
 LOCATED IN SECTION 6, T10S, R23E
 S.L.B.&M., UTAH COUNTY, UTAH



Scale: 1" = 500ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 14 Apr 2010	17
Revised: CPS	Date: 15 Oct 2010	17 of 19



Proposed Well	Distance To Nearest CA Boundary
BONANZA 1023-6K1CS	370ft
BONANZA 1023-6J2AS	540ft
BONANZA 1023-6K2BS	1,184ft
BONANZA 1023-6K2CS	1,113ft
BONANZA 1023-6E3AS	2,089ft
BONANZA 1023-6L2AS	2,054ft
BONANZA 1023-6L2DS	2,041ft

Proposed Well	Distance To Nearest Lease Boundary
BONANZA 1023-6K1CS	1,754ft
BONANZA 1023-6J2AS	784ft
BONANZA 1023-6K2BS	1,412ft
BONANZA 1023-6K2CS	1,485ft
BONANZA 1023-6E3AS	507ft
BONANZA 1023-6L2AS	541ft
BONANZA 1023-6L2DS	557ft

Legend

● Well - Proposed	Well Pad	--- Gas Pipeline - Proposed	--- Liquid Pipeline - Proposed	--- Road - Proposed	Bureau of Land Management
○ Bottom Hole - Proposed	CA Agreement	--- Gas Pipeline - To Be Upgraded	--- Liquid Pipeline - To Be Upgraded	--- Road - Existing	Indian Reservation
--- Well Path	Lease Boundary	--- Gas Pipeline - Existing	--- Liquid Pipeline - Existing	--- Road - Existing	State
					Private

Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

WELL PAD - BONANZA 1023-6K

TOPO E
 BONANZA 1023-6K1CS, BONANZA 1023-6J2AS,
 BONANZA 1023-6K2BS, BONANZA 1023-6K2CS,
 BONANZA 1023-6E3AS, BONANZA 1023-6L2AS &
 BONANZA 1023-6L2DS
 LOCATED IN SECTION 6, T10S, R23E
 S.L.B.&M., UTAH COUNTY, UTAH



Scale: 1" = 2,000ft	NAD83 USP Central
Drawn: TL	Date: 14 Apr 2010
Revised: CPS	Date: 15 Oct 2010

Sheet No:

18 18 of 19

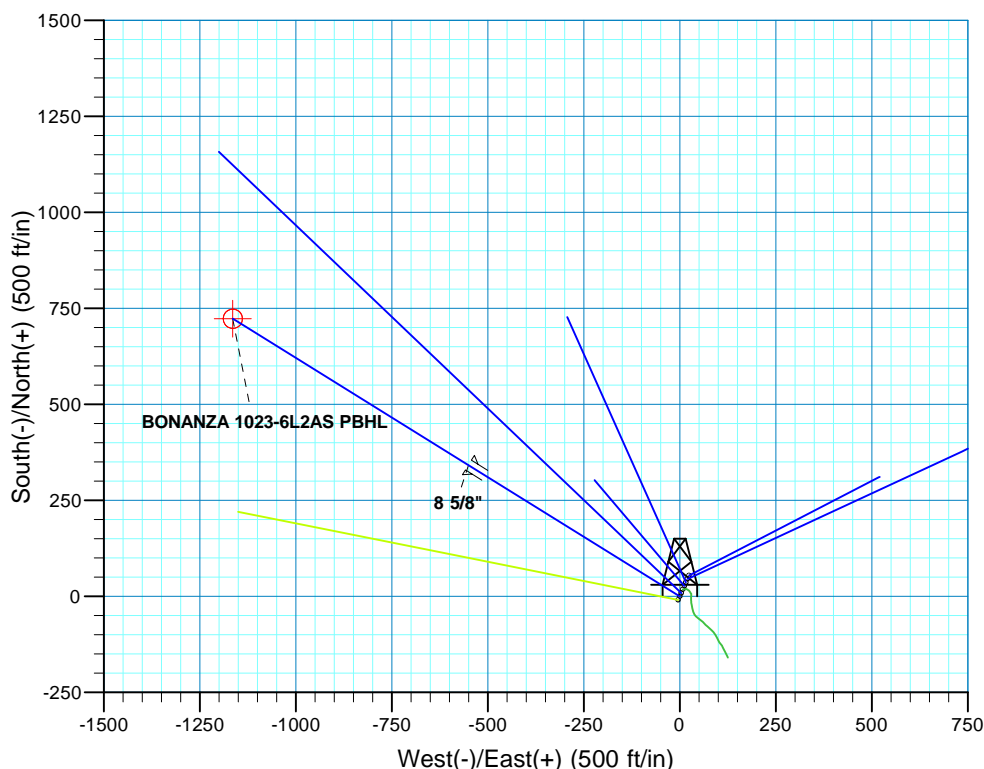
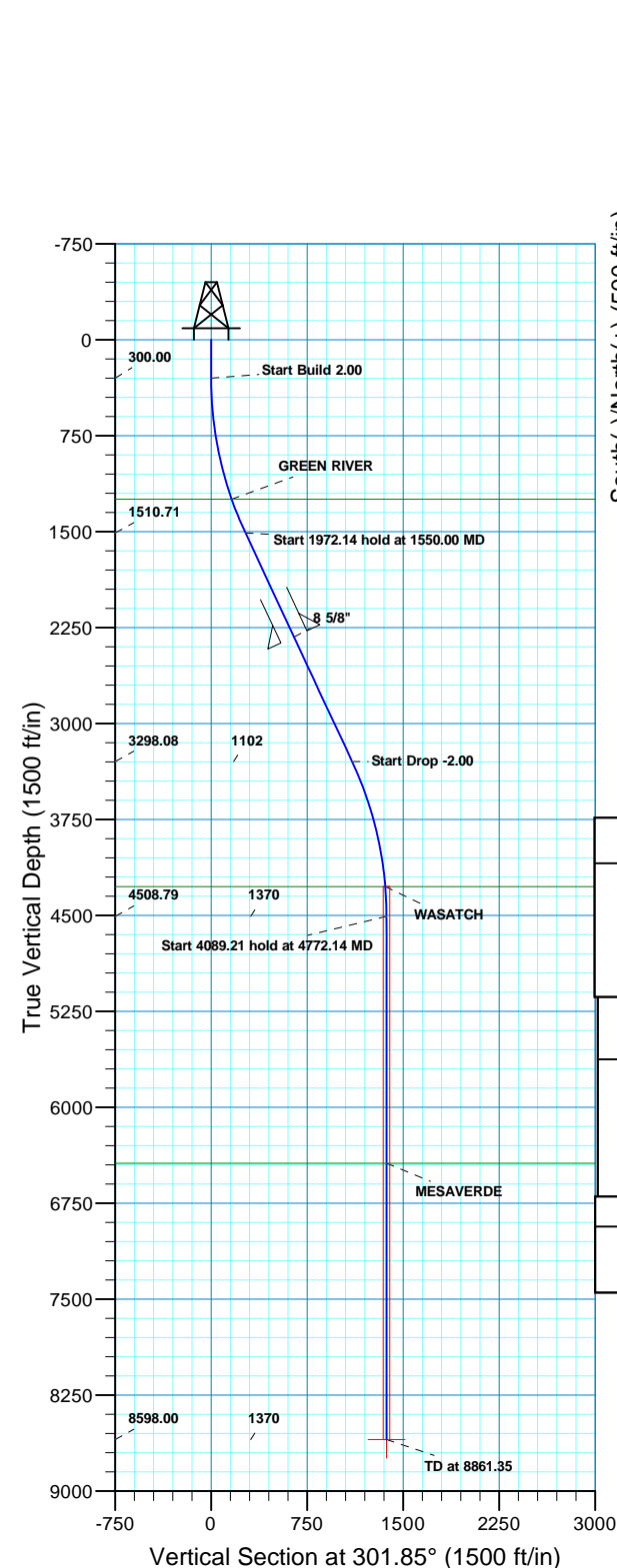
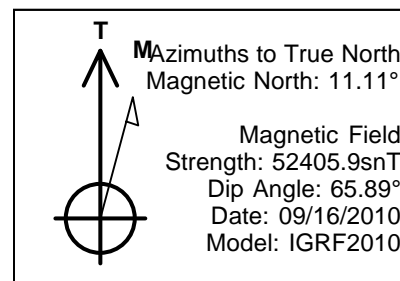
**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – BONANZA 1023-6K
WELLS – BONANZA 1023-6K1CS, BONANZA 1023-6J2AS,
BONANZA 1023-6K2BS, BONANZA 1023-6K2CS,
BONANZA 1023-6E3AS, BONANZA 1023-6L2AS &
BONANZA 1023-6L2DS
Section 6, T10S, R23E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah proceed in an easterly then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45; exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 14.4 miles to the intersection of the Chipeta Wells Road (County B Road 3410) which road intersection is approximately 400 feet northeast of the Mountain Fuel Bridge, at the White River. Exit left and proceed in a southeasterly direction along the Chipeta Wells Road approximately 4.3 miles to the intersection of the Atchee Wash Road (County B Road 4240). Exit right and proceed in a southeasterly, then southerly direction along the Atchee Wash Road approximately 7.5 miles to the intersection of the County B Road 3420. Exit left and proceed in a northeasterly direction along the County B Road 3420 approximately 0.3 miles to a service road to the left. Exit left and proceed along said service road approximately 1.6 miles to the proposed access road. Follow the road flags in a northeasterly direction approximately 80 feet to the proposed well pad.

Total distance from Vernal, Utah to the proposed well location is approximately 51.6 miles in a southerly direction.

WELL DETAILS: BONANZA 1023-6L2AS					
GL 5219 & RKB 14' @ 5233.00ft (ASSUMED)					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14521401.70	2096512.58	39° 58' 32.938 N	109° 22' 19.337 W

DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8598.00	723.00	-1164.02	14522103.33	2095335.56	39° 58' 40.084 N	109° 22' 34.291 W	Circle (Radius: 25.00)
- plan hits target center								



SECTION DETAILS										
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00		
1550.00	25.00	301.85	1510.71	141.62	-228.01	2.00	301.85	268.41		
3522.14	25.00	301.85	3298.08	581.38	-936.01	0.00	0.00	1101.87		
4772.14	0.00	0.00	4508.79	723.00	-1164.02	2.00	180.00	1370.28		
8861.35	0.00	0.00	8598.00	723.00	-1164.02	0.00	0.00	1370.28	BONANZA 1023-6L2AS PBHL	

PROJECT DETAILS: Uintah County, UT UTM12				FORMATION TOP DETAILS		
Geodetic System: Universal Transverse Mercator (US Survey Feet) Datum: NAD 1927 - Western US Ellipsoid: Clarke 1866 Zone: Zone 12N (114 W to 108 W) Location: SEC 6 T10S R23E System Datum: Mean Sea Level				TVDPath	MDPath	Formation
				1247.00	1265.15	GREEN RIVER
				4276.00	4539.09	WASATCH
				6439.00	6702.35	MESAVERDE

CASING DETAILS				
TVD	MD	Name	Size	
2324.00	2447.36	8 5/8"	8.625	

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12

Bonanza 1023-6K Pad

BONANZA 1023-6L2AS

OH

Plan: PLAN #1

Standard Planning Report

17 September, 2010

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6L2AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5219 & RKB 14' @ 5233.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5219 & RKB 14' @ 5233.00ft (ASSUMED)
Site:	Bonanza 1023-6K Pad	North Reference:	True
Well:	BONANZA 1023-6L2AS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	Bonanza 1023-6K Pad, SEC 6 T10S R23E			
Site Position:		Northing:	14,521,392.52 usft	Latitude: 39° 58' 32.848 N
From:	Lat/Long	Easting:	2,096,508.54 usft	Longitude: 109° 22' 19.391 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence: 1.05 °

Well	BONANZA 1023-6L2AS, 1861' FSL 1704' FWL			
Well Position	+N/-S	9.11 ft	Northing:	14,521,401.70 usft
	+E/-W	4.20 ft	Easting:	2,096,512.58 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	Ground Level: 5,219.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	09/16/2010	11.11	65.89	52,406

Design	PLAN #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	301.85

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,550.00	25.00	301.85	1,510.71	141.62	-228.01	2.00	2.00	0.00	301.85	
3,522.14	25.00	301.85	3,298.08	581.38	-936.01	0.00	0.00	0.00	0.00	
4,772.14	0.00	0.00	4,508.79	723.00	-1,164.02	2.00	-2.00	0.00	180.00	
8,861.35	0.00	0.00	8,598.00	723.00	-1,164.02	0.00	0.00	0.00	0.00	BONANZA 1023-6L2/

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6L2AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5219 & RKB 14' @ 5233.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5219 & RKB 14' @ 5233.00ft (ASSUMED)
Site:	Bonanza 1023-6K Pad	North Reference:	True
Well:	BONANZA 1023-6L2AS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	301.85	399.98	0.92	-1.48	1.75	2.00	2.00	0.00
500.00	4.00	301.85	499.84	3.68	-5.93	6.98	2.00	2.00	0.00
600.00	6.00	301.85	599.45	8.28	-13.33	15.69	2.00	2.00	0.00
700.00	8.00	301.85	698.70	14.71	-23.68	27.88	2.00	2.00	0.00
800.00	10.00	301.85	797.47	22.96	-36.97	43.52	2.00	2.00	0.00
900.00	12.00	301.85	895.62	33.03	-53.18	62.60	2.00	2.00	0.00
1,000.00	14.00	301.85	993.06	44.90	-72.29	85.10	2.00	2.00	0.00
1,100.00	16.00	301.85	1,089.64	58.56	-94.27	110.98	2.00	2.00	0.00
1,200.00	18.00	301.85	1,185.27	73.98	-119.11	140.21	2.00	2.00	0.00
1,265.15	19.30	301.85	1,247.00	84.97	-136.81	161.05	2.00	2.00	0.00
GREEN RIVER									
1,300.00	20.00	301.85	1,279.82	91.16	-146.76	172.77	2.00	2.00	0.00
1,400.00	22.00	301.85	1,373.17	110.07	-177.20	208.60	2.00	2.00	0.00
1,500.00	24.00	301.85	1,465.21	130.68	-210.39	247.67	2.00	2.00	0.00
1,550.00	25.00	301.85	1,510.71	141.62	-228.01	268.41	2.00	2.00	0.00
Start 1972.14 hold at 1550.00 MD									
1,600.00	25.00	301.85	1,556.03	152.77	-245.96	289.54	0.00	0.00	0.00
1,700.00	25.00	301.85	1,646.66	175.07	-281.86	331.80	0.00	0.00	0.00
1,800.00	25.00	301.85	1,737.29	197.37	-317.76	374.06	0.00	0.00	0.00
1,900.00	25.00	301.85	1,827.92	219.67	-353.66	416.32	0.00	0.00	0.00
2,000.00	25.00	301.85	1,918.55	241.96	-389.56	458.59	0.00	0.00	0.00
2,100.00	25.00	301.85	2,009.18	264.26	-425.46	500.85	0.00	0.00	0.00
2,200.00	25.00	301.85	2,099.81	286.56	-461.36	543.11	0.00	0.00	0.00
2,300.00	25.00	301.85	2,190.44	308.86	-497.26	585.37	0.00	0.00	0.00
2,400.00	25.00	301.85	2,281.07	331.16	-533.16	627.63	0.00	0.00	0.00
2,447.36	25.00	301.85	2,324.00	341.72	-550.16	647.65	0.00	0.00	0.00
8 5/8"									
2,500.00	25.00	301.85	2,371.70	353.46	-569.06	669.90	0.00	0.00	0.00
2,600.00	25.00	301.85	2,462.34	375.76	-604.96	712.16	0.00	0.00	0.00
2,700.00	25.00	301.85	2,552.97	398.06	-640.86	754.42	0.00	0.00	0.00
2,800.00	25.00	301.85	2,643.60	420.35	-676.76	796.68	0.00	0.00	0.00
2,900.00	25.00	301.85	2,734.23	442.65	-712.66	838.94	0.00	0.00	0.00
3,000.00	25.00	301.85	2,824.86	464.95	-748.56	881.20	0.00	0.00	0.00
3,100.00	25.00	301.85	2,915.49	487.25	-784.46	923.47	0.00	0.00	0.00
3,200.00	25.00	301.85	3,006.12	509.55	-820.36	965.73	0.00	0.00	0.00
3,300.00	25.00	301.85	3,096.75	531.85	-856.26	1,007.99	0.00	0.00	0.00
3,400.00	25.00	301.85	3,187.38	554.15	-892.16	1,050.25	0.00	0.00	0.00
3,500.00	25.00	301.85	3,278.01	576.45	-928.06	1,092.51	0.00	0.00	0.00
3,522.14	25.00	301.85	3,298.08	581.38	-936.01	1,101.87	0.00	0.00	0.00
Start Drop -2.00									
3,600.00	23.44	301.85	3,369.08	598.24	-963.14	1,133.81	2.00	-2.00	0.00
3,700.00	21.44	301.85	3,461.50	618.38	-995.57	1,171.99	2.00	-2.00	0.00
3,800.00	19.44	301.85	3,555.20	636.81	-1,025.24	1,206.91	2.00	-2.00	0.00
3,900.00	17.44	301.85	3,650.06	653.50	-1,052.11	1,238.55	2.00	-2.00	0.00
4,000.00	15.44	301.85	3,745.96	668.43	-1,076.16	1,266.85	2.00	-2.00	0.00
4,100.00	13.44	301.85	3,842.80	681.59	-1,097.34	1,291.79	2.00	-2.00	0.00
4,200.00	11.44	301.85	3,940.45	692.96	-1,115.64	1,313.34	2.00	-2.00	0.00
4,300.00	9.44	301.85	4,038.78	702.52	-1,131.04	1,331.46	2.00	-2.00	0.00
4,400.00	7.44	301.85	4,137.70	710.27	-1,143.51	1,346.14	2.00	-2.00	0.00

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6L2AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5219 & RKB 14' @ 5233.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5219 & RKB 14' @ 5233.00ft (ASSUMED)
Site:	Bonanza 1023-6K Pad	North Reference:	True
Well:	BONANZA 1023-6L2AS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,500.00	5.44	301.85	4,237.06	716.19	-1,153.04	1,357.36	2.00	-2.00	0.00
4,539.09	4.66	301.85	4,276.00	718.01	-1,155.97	1,360.81	2.00	-2.00	0.00
WASATCH									
4,600.00	3.44	301.85	4,336.75	720.28	-1,159.62	1,365.11	2.00	-2.00	0.00
4,700.00	1.44	301.85	4,436.66	722.52	-1,163.25	1,369.37	2.00	-2.00	0.00
4,772.14	0.00	0.00	4,508.79	723.00	-1,164.02	1,370.28	2.00	-2.00	0.00
Start 4089.21 hold at 4772.14 MD									
4,800.00	0.00	0.00	4,536.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
4,900.00	0.00	0.00	4,636.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
5,000.00	0.00	0.00	4,736.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
5,100.00	0.00	0.00	4,836.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
5,200.00	0.00	0.00	4,936.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
5,300.00	0.00	0.00	5,036.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
5,400.00	0.00	0.00	5,136.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
5,500.00	0.00	0.00	5,236.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
5,600.00	0.00	0.00	5,336.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
5,700.00	0.00	0.00	5,436.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
5,800.00	0.00	0.00	5,536.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
5,900.00	0.00	0.00	5,636.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
6,000.00	0.00	0.00	5,736.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
6,100.00	0.00	0.00	5,836.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
6,200.00	0.00	0.00	5,936.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
6,300.00	0.00	0.00	6,036.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
6,400.00	0.00	0.00	6,136.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
6,500.00	0.00	0.00	6,236.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
6,600.00	0.00	0.00	6,336.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
6,700.00	0.00	0.00	6,436.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
6,702.35	0.00	0.00	6,439.00	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
MESAVERDE									
6,800.00	0.00	0.00	6,536.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
6,900.00	0.00	0.00	6,636.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
7,000.00	0.00	0.00	6,736.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
7,100.00	0.00	0.00	6,836.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
7,200.00	0.00	0.00	6,936.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
7,300.00	0.00	0.00	7,036.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
7,400.00	0.00	0.00	7,136.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
7,500.00	0.00	0.00	7,236.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
7,600.00	0.00	0.00	7,336.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
7,700.00	0.00	0.00	7,436.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
7,800.00	0.00	0.00	7,536.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
7,900.00	0.00	0.00	7,636.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
8,000.00	0.00	0.00	7,736.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
8,100.00	0.00	0.00	7,836.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
8,200.00	0.00	0.00	7,936.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
8,300.00	0.00	0.00	8,036.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
8,400.00	0.00	0.00	8,136.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
8,500.00	0.00	0.00	8,236.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
8,600.00	0.00	0.00	8,336.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
8,700.00	0.00	0.00	8,436.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
8,800.00	0.00	0.00	8,536.65	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
8,861.35	0.00	0.00	8,598.00	723.00	-1,164.02	1,370.28	0.00	0.00	0.00
TD at 8861.35 - BONANZA 1023-6L2AS PBHL									

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6L2AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5219 & RKB 14' @ 5233.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5219 & RKB 14' @ 5233.00ft (ASSUMED)
Site:	Bonanza 1023-6K Pad	North Reference:	True
Well:	BONANZA 1023-6L2AS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
BONANZA 1023-6L2AS	0.00	0.00	8,598.00	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
- plan hits target center									
- Circle (radius 25.00)									

Casing Points					
Measured Depth	Vertical Depth			Casing Diameter	Hole Diameter
(ft)	(ft)		Name	(in)	(in)
2,447.36	2,324.00	8 5/8"		8.625	11.000

Formations					
Measured Depth	Vertical Depth			Dip	Dip Direction
(ft)	(ft)		Name	(°)	(°)
1,265.15	1,247.00		GREEN RIVER		
4,539.09	4,276.00		WASATCH		
6,702.35	6,439.00		MESAVERDE		

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
1,550.00	1,510.71	141.62	-228.01	Start 1972.14 hold at 1550.00 MD
3,522.14	3,298.08	581.38	-936.01	Start Drop -2.00
4,772.14	4,508.79	723.00	-1,164.02	Start 4089.21 hold at 4772.14 MD
8,861.35	8,598.00	723.00	-1,164.02	TD at 8861.35

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12

Bonanza 1023-6K Pad

BONANZA 1023-6L2AS

OH

Plan: PLAN #1

Standard Planning Report - Geographic

17 September, 2010

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6L2AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5219 & RKB 14' @ 5233.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5219 & RKB 14' @ 5233.00ft (ASSUMED)
Site:	Bonanza 1023-6K Pad	North Reference:	True
Well:	BONANZA 1023-6L2AS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	Bonanza 1023-6K Pad, SEC 6 T10S R23E		
Site Position:		Northing:	14,521,392.52 usft
From:	Lat/Long	Easting:	2,096,508.54 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	39° 58' 32.848 N
		Longitude:	109° 22' 19.391 W
		Grid Convergence:	1.05 °

Well	BONANZA 1023-6L2AS, 1861' FSL 1704' FWL		
Well Position	+N/-S	0.00 ft	Northing: 14,521,401.70 usft
	+E/-W	0.00 ft	Easting: 2,096,512.58 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	Latitude: 39° 58' 32.938 N
			Longitude: 109° 22' 19.337 W
			Ground Level: 5,219.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	09/16/2010	11.11	65.89	52,406

Design	PLAN #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	301.85

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,550.00	25.00	301.85	1,510.71	141.62	-228.01	2.00	2.00	0.00	301.85	
3,522.14	25.00	301.85	3,298.08	581.38	-936.01	0.00	0.00	0.00	0.00	
4,772.14	0.00	0.00	4,508.79	723.00	-1,164.02	2.00	-2.00	0.00	180.00	
8,861.35	0.00	0.00	8,598.00	723.00	-1,164.02	0.00	0.00	0.00	0.00	BONANZA 1023-6L2/

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6L2AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5219 & RKB 14' @ 5233.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5219 & RKB 14' @ 5233.00ft (ASSUMED)
Site:	Bonanza 1023-6K Pad	North Reference:	True
Well:	BONANZA 1023-6L2AS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,521,401.70	2,096,512.58	39° 58' 32.938 N	109° 22' 19.337 W
100.00	0.00	0.00	100.00	0.00	0.00	14,521,401.70	2,096,512.58	39° 58' 32.938 N	109° 22' 19.337 W
200.00	0.00	0.00	200.00	0.00	0.00	14,521,401.70	2,096,512.58	39° 58' 32.938 N	109° 22' 19.337 W
300.00	0.00	0.00	300.00	0.00	0.00	14,521,401.70	2,096,512.58	39° 58' 32.938 N	109° 22' 19.337 W
Start Build 2.00									
400.00	2.00	301.85	399.98	0.92	-1.48	14,521,402.60	2,096,511.08	39° 58' 32.947 N	109° 22' 19.356 W
500.00	4.00	301.85	499.84	3.68	-5.93	14,521,405.28	2,096,506.58	39° 58' 32.974 N	109° 22' 19.413 W
600.00	6.00	301.85	599.45	8.28	-13.33	14,521,409.74	2,096,499.10	39° 58' 33.019 N	109° 22' 19.508 W
700.00	8.00	301.85	698.70	14.71	-23.68	14,521,415.98	2,096,488.63	39° 58' 33.083 N	109° 22' 19.641 W
800.00	10.00	301.85	797.47	22.96	-36.97	14,521,423.99	2,096,475.19	39° 58' 33.165 N	109° 22' 19.812 W
900.00	12.00	301.85	895.62	33.03	-53.18	14,521,433.76	2,096,458.81	39° 58' 33.264 N	109° 22' 20.020 W
1,000.00	14.00	301.85	993.06	44.90	-72.29	14,521,445.28	2,096,439.48	39° 58' 33.381 N	109° 22' 20.265 W
1,100.00	16.00	301.85	1,089.64	58.56	-94.27	14,521,458.53	2,096,417.25	39° 58' 33.516 N	109° 22' 20.548 W
1,200.00	18.00	301.85	1,185.27	73.98	-119.11	14,521,473.50	2,096,392.14	39° 58' 33.669 N	109° 22' 20.867 W
1,265.15	19.30	301.85	1,247.00	84.97	-136.81	14,521,484.17	2,096,374.24	39° 58' 33.777 N	109° 22' 21.094 W
GREEN RIVER									
1,300.00	20.00	301.85	1,279.82	91.16	-146.76	14,521,490.17	2,096,364.18	39° 58' 33.839 N	109° 22' 21.222 W
1,400.00	22.00	301.85	1,373.17	110.07	-177.20	14,521,508.51	2,096,333.40	39° 58' 34.025 N	109° 22' 21.613 W
1,500.00	24.00	301.85	1,465.21	130.68	-210.39	14,521,528.52	2,096,299.84	39° 58' 34.229 N	109° 22' 22.040 W
1,550.00	25.00	301.85	1,510.71	141.62	-228.01	14,521,539.14	2,096,282.03	39° 58' 34.337 N	109° 22' 22.266 W
Start 1972.14 hold at 1550.00 MD									
1,600.00	25.00	301.85	1,556.03	152.77	-245.96	14,521,549.96	2,096,263.88	39° 58' 34.448 N	109° 22' 22.497 W
1,700.00	25.00	301.85	1,646.66	175.07	-281.86	14,521,571.60	2,096,227.57	39° 58' 34.668 N	109° 22' 22.958 W
1,800.00	25.00	301.85	1,737.29	197.37	-317.76	14,521,593.24	2,096,191.27	39° 58' 34.888 N	109° 22' 23.419 W
1,900.00	25.00	301.85	1,827.92	219.67	-353.66	14,521,614.88	2,096,154.97	39° 58' 35.109 N	109° 22' 23.880 W
2,000.00	25.00	301.85	1,918.55	241.96	-389.56	14,521,636.52	2,096,118.67	39° 58' 35.329 N	109° 22' 24.341 W
2,100.00	25.00	301.85	2,009.18	264.26	-425.46	14,521,658.15	2,096,082.37	39° 58' 35.550 N	109° 22' 24.803 W
2,200.00	25.00	301.85	2,099.81	286.56	-461.36	14,521,679.79	2,096,046.07	39° 58' 35.770 N	109° 22' 25.264 W
2,300.00	25.00	301.85	2,190.44	308.86	-497.26	14,521,701.43	2,096,009.77	39° 58' 35.990 N	109° 22' 25.725 W
2,400.00	25.00	301.85	2,281.07	331.16	-533.16	14,521,723.07	2,095,973.46	39° 58' 36.211 N	109° 22' 26.186 W
2,447.36	25.00	301.85	2,324.00	341.72	-550.16	14,521,733.32	2,095,956.27	39° 58' 36.315 N	109° 22' 26.405 W
8 5/8"									
2,500.00	25.00	301.85	2,371.70	353.46	-569.06	14,521,744.71	2,095,937.16	39° 58' 36.431 N	109° 22' 26.648 W
2,600.00	25.00	301.85	2,462.34	375.76	-604.96	14,521,766.35	2,095,900.86	39° 58' 36.652 N	109° 22' 27.109 W
2,700.00	25.00	301.85	2,552.97	398.06	-640.86	14,521,787.99	2,095,864.56	39° 58' 36.872 N	109° 22' 27.570 W
2,800.00	25.00	301.85	2,643.60	420.35	-676.76	14,521,809.63	2,095,828.26	39° 58' 37.092 N	109° 22' 28.031 W
2,900.00	25.00	301.85	2,734.23	442.65	-712.66	14,521,831.27	2,095,791.96	39° 58' 37.313 N	109° 22' 28.492 W
3,000.00	25.00	301.85	2,824.86	464.95	-748.56	14,521,852.91	2,095,755.66	39° 58' 37.533 N	109° 22' 28.954 W
3,100.00	25.00	301.85	2,915.49	487.25	-784.46	14,521,874.55	2,095,719.35	39° 58' 37.754 N	109° 22' 29.415 W
3,200.00	25.00	301.85	3,006.12	509.55	-820.36	14,521,896.19	2,095,683.05	39° 58' 37.974 N	109° 22' 29.876 W
3,300.00	25.00	301.85	3,096.75	531.85	-856.26	14,521,917.83	2,095,646.75	39° 58' 38.194 N	109° 22' 30.337 W
3,400.00	25.00	301.85	3,187.38	554.15	-892.16	14,521,939.47	2,095,610.45	39° 58' 38.415 N	109° 22' 30.799 W
3,500.00	25.00	301.85	3,278.01	576.45	-928.06	14,521,961.11	2,095,574.15	39° 58' 38.635 N	109° 22' 31.260 W
3,522.14	25.00	301.85	3,298.08	581.38	-936.01	14,521,965.90	2,095,566.11	39° 58' 38.684 N	109° 22' 31.362 W
Start Drop -2.00									
3,600.00	23.44	301.85	3,369.08	598.24	-963.14	14,521,982.25	2,095,538.68	39° 58' 38.850 N	109° 22' 31.710 W
3,700.00	21.44	301.85	3,461.50	618.38	-995.57	14,522,001.80	2,095,505.88	39° 58' 39.050 N	109° 22' 32.127 W
3,800.00	19.44	301.85	3,555.20	636.81	-1,025.24	14,522,019.68	2,095,475.88	39° 58' 39.232 N	109° 22' 32.508 W
3,900.00	17.44	301.85	3,650.06	653.50	-1,052.11	14,522,035.88	2,095,448.71	39° 58' 39.397 N	109° 22' 32.853 W
4,000.00	15.44	301.85	3,745.96	668.43	-1,076.16	14,522,050.37	2,095,424.40	39° 58' 39.544 N	109° 22' 33.162 W
4,100.00	13.44	301.85	3,842.80	681.59	-1,097.34	14,522,063.14	2,095,402.98	39° 58' 39.674 N	109° 22' 33.435 W
4,200.00	11.44	301.85	3,940.45	692.96	-1,115.64	14,522,074.18	2,095,384.47	39° 58' 39.787 N	109° 22' 33.670 W
4,300.00	9.44	301.85	4,038.78	702.52	-1,131.04	14,522,083.46	2,095,368.90	39° 58' 39.881 N	109° 22' 33.868 W
4,400.00	7.44	301.85	4,137.70	710.27	-1,143.51	14,522,090.97	2,095,356.29	39° 58' 39.958 N	109° 22' 34.028 W

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6L2AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5219 & RKB 14' @ 5233.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5219 & RKB 14' @ 5233.00ft (ASSUMED)
Site:	Bonanza 1023-6K Pad	North Reference:	True
Well:	BONANZA 1023-6L2AS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,500.00	5.44	301.85	4,237.06	716.19	-1,153.04	14,522,096.72	2,095,346.65	39° 58' 40.016 N	109° 22' 34.150 W
4,539.09	4.66	301.85	4,276.00	718.01	-1,155.97	14,522,098.48	2,095,343.70	39° 58' 40.034 N	109° 22' 34.188 W
WASATCH									
4,600.00	3.44	301.85	4,336.75	720.28	-1,159.62	14,522,100.69	2,095,340.00	39° 58' 40.057 N	109° 22' 34.235 W
4,700.00	1.44	301.85	4,436.66	722.52	-1,163.25	14,522,102.87	2,095,336.34	39° 58' 40.079 N	109° 22' 34.281 W
4,772.14	0.00	0.00	4,508.79	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
Start 4089.21 hold at 4772.14 MD									
4,800.00	0.00	0.00	4,536.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
4,900.00	0.00	0.00	4,636.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
5,000.00	0.00	0.00	4,736.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
5,100.00	0.00	0.00	4,836.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
5,200.00	0.00	0.00	4,936.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
5,300.00	0.00	0.00	5,036.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
5,400.00	0.00	0.00	5,136.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
5,500.00	0.00	0.00	5,236.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
5,600.00	0.00	0.00	5,336.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
5,700.00	0.00	0.00	5,436.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
5,800.00	0.00	0.00	5,536.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
5,900.00	0.00	0.00	5,636.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
6,000.00	0.00	0.00	5,736.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
6,100.00	0.00	0.00	5,836.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
6,200.00	0.00	0.00	5,936.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
6,300.00	0.00	0.00	6,036.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
6,400.00	0.00	0.00	6,136.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
6,500.00	0.00	0.00	6,236.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
6,600.00	0.00	0.00	6,336.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
6,700.00	0.00	0.00	6,436.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
6,702.35	0.00	0.00	6,439.00	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
MESAVERDE									
6,800.00	0.00	0.00	6,536.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
6,900.00	0.00	0.00	6,636.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
7,000.00	0.00	0.00	6,736.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
7,100.00	0.00	0.00	6,836.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
7,200.00	0.00	0.00	6,936.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
7,300.00	0.00	0.00	7,036.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
7,400.00	0.00	0.00	7,136.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
7,500.00	0.00	0.00	7,236.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
7,600.00	0.00	0.00	7,336.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
7,700.00	0.00	0.00	7,436.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
7,800.00	0.00	0.00	7,536.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
7,900.00	0.00	0.00	7,636.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
8,000.00	0.00	0.00	7,736.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
8,100.00	0.00	0.00	7,836.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
8,200.00	0.00	0.00	7,936.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
8,300.00	0.00	0.00	8,036.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
8,400.00	0.00	0.00	8,136.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
8,500.00	0.00	0.00	8,236.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
8,600.00	0.00	0.00	8,336.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
8,700.00	0.00	0.00	8,436.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
8,800.00	0.00	0.00	8,536.65	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
8,861.35	0.00	0.00	8,598.00	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
TD at 8861.35 - BONANZA 1023-6L2AS PBHL									

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6L2AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5219 & RKB 14' @ 5233.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5219 & RKB 14' @ 5233.00ft (ASSUMED)
Site:	Bonanza 1023-6K Pad	North Reference:	True
Well:	BONANZA 1023-6L2AS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
BONANZA 1023-6L2AS	0.00	0.00	8,598.00	723.00	-1,164.02	14,522,103.33	2,095,335.56	39° 58' 40.084 N	109° 22' 34.291 W
- plan hits target center									
- Circle (radius 25.00)									

Casing Points					
Measured Depth	Vertical Depth	Name		Casing Diameter	Hole Diameter
(ft)	(ft)			(in)	(in)
2,447.36	2,324.00	8 5/8"		8.625	11.000

Formations					
Measured Depth	Vertical Depth	Name		Lithology	Dip Direction
(ft)	(ft)				(°)
1,265.15	1,247.00	GREEN RIVER			
4,539.09	4,276.00	WASATCH			
6,702.35	6,439.00	MESAVERDE			

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
1,550.00	1,510.71	141.62	-228.01	Start 1972.14 hold at 1550.00 MD
3,522.14	3,298.08	581.38	-936.01	Start Drop -2.00
4,772.14	4,508.79	723.00	-1,164.02	Start 4089.21 hold at 4772.14 MD
8,861.35	8,598.00	723.00	-1,164.02	TD at 8861.35

Bonanza 1023-6E3AS/ 1023-6J2AS/ 1023-6K1CS/ 1023-6K2BS/
 1023-6K2CS/ 1023-6L2AS/ 1023-6L2DS
 Kerr-McGee Oil Gas Onshore, L.P.

Bonanza 1023-6K Pad
 Surface Use Plan of Operations
 1 of 7

Kerr-McGee Oil & Gas Onshore. L.P.

Bonanza 1023-6F Pad

<u>API #</u>	<u>BONANZA 1023-6E3AS</u>		
	Surface:	1870 FSL / 1712 FWL	NESW Lot
	BHL:	2286 FNL / 507 FWL	SWNW Lot 5
<u>API #</u>	<u>BONANZA 1023-6J2AS</u>		
	Surface:	1907 FSL / 1728 FWL	NESW Lot
	BHL:	2556 FSL / 2100 FEL	NWSE Lot
<u>API #</u>	<u>BONANZA 1023-6K1CS</u>		
	Surface:	1915 FSL / 1732 FWL	NESW Lot
	BHL:	2170 FSL / 2228 FWL	NESW Lot
<u>API #</u>	<u>BONANZA 1023-6K2BS</u>		
	Surface:	1897 FSL / 1724 FWL	NESW Lot
	BHL:	2590 FSL / 1412 FWL	NESW Lot
<u>API #</u>	<u>BONANZA 1023-6K2CS</u>		
	Surface:	1888 FSL / 1720 FWL	NESW Lot
	BHL:	2165 FSL / 1485 FWL	NESW Lot
<u>API #</u>	<u>BONANZA 1023-6L2AS</u>		
	Surface:	1861 FSL / 1708 FWL	NESW Lot
	BHL:	2590 FSL / 541 FWL	NWSW Lot 6
<u>API #</u>	<u>BONANZA 1023-6L2DS</u>		
	Surface:	1852 FSL / 1704 FWL	NESW Lot
	BHL:	2087 FSL / 557 FWL	NWSW Lot 6

This Surface Use Plan of Operations (SUPO) or 13-point plan provides the site-specific information for the above-referenced wells. This information incorporates by reference the Master Development Plan (MDP) for Kerr-McGee Oil & Gas Onshore LP (KMG). The MDP is available upon request from the BLM-Vernal Field Office.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

An on-site meeting was held on June 16, 2010. Present were:

- Dave Gordon, Suzanne Gray and Dan Emmett – BLM;
- John Slaugh, Brock Slaugh and Mitch Batty- Timberline Engineering & Land Surveying, Inc.; and
- Roger Parry, Clay Einerson, Grizz Oleen, Sheila Wopsock, Lovell Young, Grizz Oleen, Hal Blanchard, Lance Morton, Tim Donovan, Kathie Zehren, Laura Gianakos and Charles Chase – Kerr-McGee

Bonanza 1023-6E3AS/ 1023-6J2AS/ 1023-6K1CS/ 1023-6K2BS/
1023-6K2CS/ 1023-6L2AS/ 1023-6L2DS
Kerr-McGee Oil Gas Onshore, L.P.

Bonanza 1023-6K Pad
Surface Use Plan of Operations
2 of 7

A. Existing Roads:

A) Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

The following segments are "onlease", no ROW needed.

±1,940' (0.4 miles) – Section 6 T10S R23E (NE/4 SW/4) – On-lease UTU38419, from the end of the new road re-route to the southern section line boundary. Please refer to Topo B and Exhibit B2.

B. New or Reconstructed Access Roads:

See MDP for additional details on road construction.

±80' (0.02 miles) – Section 6 T10S R23E (NE/4 SW/4) – On-lease UTU38419, from the edge of pad a new road re-route will be constructed. Please refer to Topo B.

C. Location of Existing Wells:

A) Refer to Topo Map C.

D. Location of Existing and/or Proposed Facilities:

See MDP for additional details on Location of Existing and/or Proposed Facilities. Also, please refer to Exhibit B and Topo D- Pad and Pipeline Detail.

This pad will expand the existing pad for the Bonanza 6-2, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on December 29, 2010. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (KMG).

GAS GATHERING

The gas gathering pipeline material: Steel line pipe with fusion bond epoxy coating. The total gas gathering pipeline distance from the meter to the tie in point is ±5,060' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

±820' (0.2 miles) – Section 6 T10S R23E (NE/4 SW/4) – On-lease UTU38419, BLM surface, New 8" buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D- Pad and Pipeline Detail.

±2,020' (0.04 miles) – Section 6 T10S R23E (NE/4 SW/4) – On-lease UTU38419, BLM surface, New 8" buried gas gathering pipeline from the edge of the pad to the southern section and lease line boundary. Please refer to Topo D Pad and Pipeline Detail and Exhibit A1.

The following segments require a ROW.

±1,220' (0.2 miles) – Section 7 T10S R23E (NW/4 NE/4) – Lease UTU38420, BLM surface, New 8" buried gas gathering pipeline from the northern section line boundary to the tie-in at the new 12" buried gas gathering pipeline (NW/4 NE/4). Please refer to Exhibit A1, Line 16.

±1,000' (0.2 miles) – Section 7 T10S R23E (NW/4 NE/4) – Lease UTU38420, BLM surface, New 12" buried gas gathering pipeline from the tie-in (NW/ NE/4) to the tie-in at the existing 16" buried gas gathering pipeline (SE/4 NW/4). Please refer to Exhibit A1, Line 15.

LIQUID GATHERING

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 5,060'$ and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- $\pm 820'$ (0.2 miles) – Section 6 T10S R23E (NE/4 SW/4) – On-lease UTU38419, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D Pad and Pipeline Detail.
- $\pm 2,020'$ (0.04 miles) – Section 6 T10S R23E (NE/4 SW/4) – On-lease UTU38419, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to the southern section and lease line boundary. Please refer to Topo D Pad and Pipeline Detail and Exhibit B, Line 6.

The following segments require a ROW.

- $\pm 2,220'$ (0.4 miles) – Section 7 T10S R23E (NW/4 NE/4) – Lease UTU38420, BLM surface, New 6" buried liquid gathering pipeline from the northern section line boundary to the tie-in at the existing buried liquid gathering line (SE/4 NW/4 of section 7).

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

The proposed buried pipelines will be constructed utilizing existing disturbance when possible. The area of disturbance during construction from the edge of road or well pad will be 30' in width. The total pipeline disturbance width will be 30'. Where possible there will be no additional disturbance during construction, as the road will be utilized for construction vehicles. The liquid and gas gathering lines will be in the same trench.

The proposed trench width for the pipeline would range from 18-48 inch and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. The pipeline will be welded or zap locked along the proposed right-of-way and lowered into place. During construction blasting may occur along the proposed right-of-way when trenching equipment can not cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed buried pipeline will be visually and radiographically inspected and the entire pipeline will be pneumatically tested before being placed into service.

Upon completion of the proposed buried pipeline, the entire area of disturbance will be reclaimed to the standards proposed in the Green River District Reclamation Guidelines. Please refer to the MDP for more details regarding final reclamation. Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves and lateral T's will be installed at various locations to connect the new line to existing facilities and/or for safety purposes. Kerr-McGee requests for a permanent 30' right-of-way that will be maintained for the portion adjacent to the road. The need for the 30' permanent right-of-way is for maintenance and repairs.

When no longer serving a useful purpose, Kerr-McGee or it's successor will consult with the BLM, Vernal Field Office before termination.

The Anadarko Completions Transportation System (ACTS) information:

See MDP for additional details on the ACTS System.

Upon completion of the wells on this pad, Kerr-McGee is also requesting to utilize this pit as an Anadarko Completion Transport System (ACTS) staging pit which will be utilized for other completion operations in the area. The ACTS process will reduce the amount of truck traffic on a field-wide basis, also reducing vehicle emissions and fugitive dust generation.

Kerr-McGee will use ACTS to optimize the completion processes for multiple pads across the project area which may include up to a section of development. ACTS will facilitate management of frac fluids by utilizing existing reserve pits and temporary, surface-laid aluminum liquids transfer lines between frac locations. The refurbished pit will be relined per the guidelines in the MDP. The pit will be refurbished as follows: mix and pile up drill cuttings with dry dirt, bury the original liner in the pit, walk bottom of pit with cat. Kerr-McGee will reline the pit with a 30 mil liner and double felt padding. The refurbished pit will be the same size or smaller as specified in the originally approved ROW/APD. The pit refurb will be done in a normal procedure and there will be no modification to the pit that does not coincide with Kerr-McGee's MDP. Hog fence panels (5' X 16') will be built and painted shadow gray and will be put up on the work side of the pit. Polypropylene netting will be installed over all pits. There will be two 500 bbl temporary frac tanks placed on the location. The trucks will unload water into these tanks before the water is placed into the refurbished pit. The

purpose of the temporary frac tanks is to collect any hydro-carbons that may have been associated with the other completion operations before releasing into the pit. The collected hydrocarbons will be treated and sold at approved sales facilities. A loading rack with drip containment will be also be installed where water trucks would unload and load to prevent damage caused from pulling hoses in and out of the pit .

ACTS will require temporarily laying multiple 6" aluminum water transfer lines on the surface between either existing or refurbished reserve pits. Please see the attached ACTS exhibit C for placement of the proposed temporary lines. The temporary aluminum transfer lines will be utilized to transport frac fluid being injected and/or recovered during the completion process and will be laid adjacent to existing access roads. Upon completion of the frac operation, the liquids transfer lines will be flushed with fresh water and purged with compressed air. The contents of the transfer lines will be flushed into a water truck for delivery to another ACTS location or a reserve pit.

The volume of frac fluid transported through a water transfer line will vary, but volume is projected to be approximately 1.75 bbls per 50-foot joint. Although the maximum working pressure is 125 psig, the liquids transfer lines will be operated at a pressure of approximately 30 to 40 psig.

Kerr-McGee requests to keep this netted pit open for one year. During this time the surrounding well location completion fluids may be recycled in this pit and utilized for other frac jobs in the area. After one year Kerr-McGee will backfill the pit and reclaim as stated in the MDP. Kerr-McGee understands that due to the temporary nature of this system, BLM considers this a casual use situation; therefore, no permanent ROW or temporary use plan will need to be issued by the BLM.

E. Location and Types of Water Supply:

See MDP for additional details on Location and Type of Water Supply.

Water for drilling and completion operations will be obtained from the following sources:

Permit # 49-2307	JD Field Services	Green River- Section 15, T2N, R22E
Permit # 49-2321	R.N. Industries	White River- Section 2, T10S, R24E

Bonanza 1023-6E3AS/ 1023-6J2AS/ 1023-6K1CS/ 1023-6K2BS/
1023-6K2CS/ 1023-6L2AS/ 1023-6L2DS
Kerr-McGee Oil Gas Onshore, L.P.

Bonanza 1023-6K Pad
Surface Use Plan of Operations
5 of 7

Permit # 49-2319

R.N. Industries

White River- Various Sources

Permit # 49-2320

R.N. Industries

Green River- Section 33, T8S, R23E

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

F. Construction Materials:

See MDP for additional details on Source of Construction Materials.

G. Methods for Handling Waste:

See MDP for additional details on Methods of Handling Waste Materials

Fluids disposal and pipeline/haul routes are depicted on Topo Map A.

Any produced water separated from recoverable condensate from the proposed well will be contained in a water tank and will then be transported by pipeline and/or truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E

NBU #159 in Sec. 35 T9S R21E

Ace Oilfield in Sec. 2 T6S R20E

MC&MC in Sec. 12 T6S R19E

Pipeline Facility in Sec. 36 T9S R20E

Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E

Bonanza Evaporation Pond in Sec. 2 T10S R23E

Or to one of the following Kerr-McGee active Salt Water Disposal (SWD) wells:

NBU 159 SWD in Sec. 35 T9S R21E

CIGE 112D SWD in Sec. 19 T9S R21E

CIGE 114 SWD in Sec. 34 T9S R21E

NBU 921-34K SWD in Sec. 34 T9S R21E

NBU 921-33F SWD in Sec. 34 T9S R21E

H. Ancillary Facilities:

See MDP for additional details on Ancillary Facilities.

None are anticipated.

I. Well Site Layout:

See MDP and Well Pad Design Summary for additional details on Well Site Layout.

J. Plans for Surface Reclamation:

See MDP for additional details on Plans for Reclamation of the Surface.

Site Specific Reclamation Considerations:

Bonanza 1023-6E3AS/ 1023-6J2AS/ 1023-6K1CS/ 1023-6K2BS/
 1023-6K2CS/ 1023-6L2AS/ 1023-6L2DS
 Kerr-McGee Oil Gas Onshore, L.P.

Bonanza 1023-6K Pad
 Surface Use Plan of Operations
 6 of 7

Reclamation Monitoring Reference Point for all wells on Pad (where a reclamation monitoring point has not been established at the time of APD submission, it will be submitted for approval under separate cover prior to surface disturbing activities):

Seed Mix to be used for Well Site, Access Road, and Pipeline (as applicable):

Bonanza Area Mix	Pure Live Seed lbs/acre
Crested Wheat (Hycrest)	2
Bottlebrush Squirrelnail	1
Western Wheatgrass (Arriba)	1
Indian Ricegrass	1
Fourwing Saltbush	2
Shadscale	2
Forage Kochia	0.25
Rocky Mountain Bee Plant	0.5
Total	9.75

K. Surface/Mineral Ownership:

United States of America
 Bureau of Land Management
 170 South 500 East
 Vernal, UT 84078
 (435)781-4400

L. Other Information:

See MDP for additional details on Other Information.

Onsite Specifics:

- Construction: 30 Mil Double Felt
- Facilities: Will be painted Shadow Grey
- Top Soil: Need to save 4" topsoil

Resource Reports:

A Class I literature survey was completed on August 20, 2010 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 10-066b.

A paleontological reconnaissance survey was completed on May 11, 2010 by SWCA Environmental Consultants. For additional details please refer to report UT10-14314-28.

Biological field survey was completed on May 3, 2010 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-218.

Right-of-Ways (ROW):

See MDP for additional information on ROW

M. Lessee's or Operators' Representative & Certification:

Gina T. Becker
Regulatory Analyst II
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6086

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.


Gina T. Becker

December 29, 2010
Date



Kerr-McGee Oil & Gas Onshore LP
P.O. Box 173779
Denver, CO 80217-3779

June 30, 2010

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Exception Location R649-3-3 and Directional Drilling R649-3-11
Bonanza 1023-6L2AS
T10S- R23E
Section 6: NESW/NWSW
1861' FSL, 1708' FWL (surface)
2590' FSL, 541' FWL (bottom hole)
Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-3 and Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- Kerr-McGee's Bonanza 1023-6L2AS is located within the area covered by Docket No. 2008-011 authorizing the equivalent of an approximate 10-acre well density pattern, and requiring approval for wells drilled at an exception location and wells drilled directionally in accordance with the referenced rules.
- Kerr-McGee is permitting this well at this location for geological reasons. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to minimize surface disturbance.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

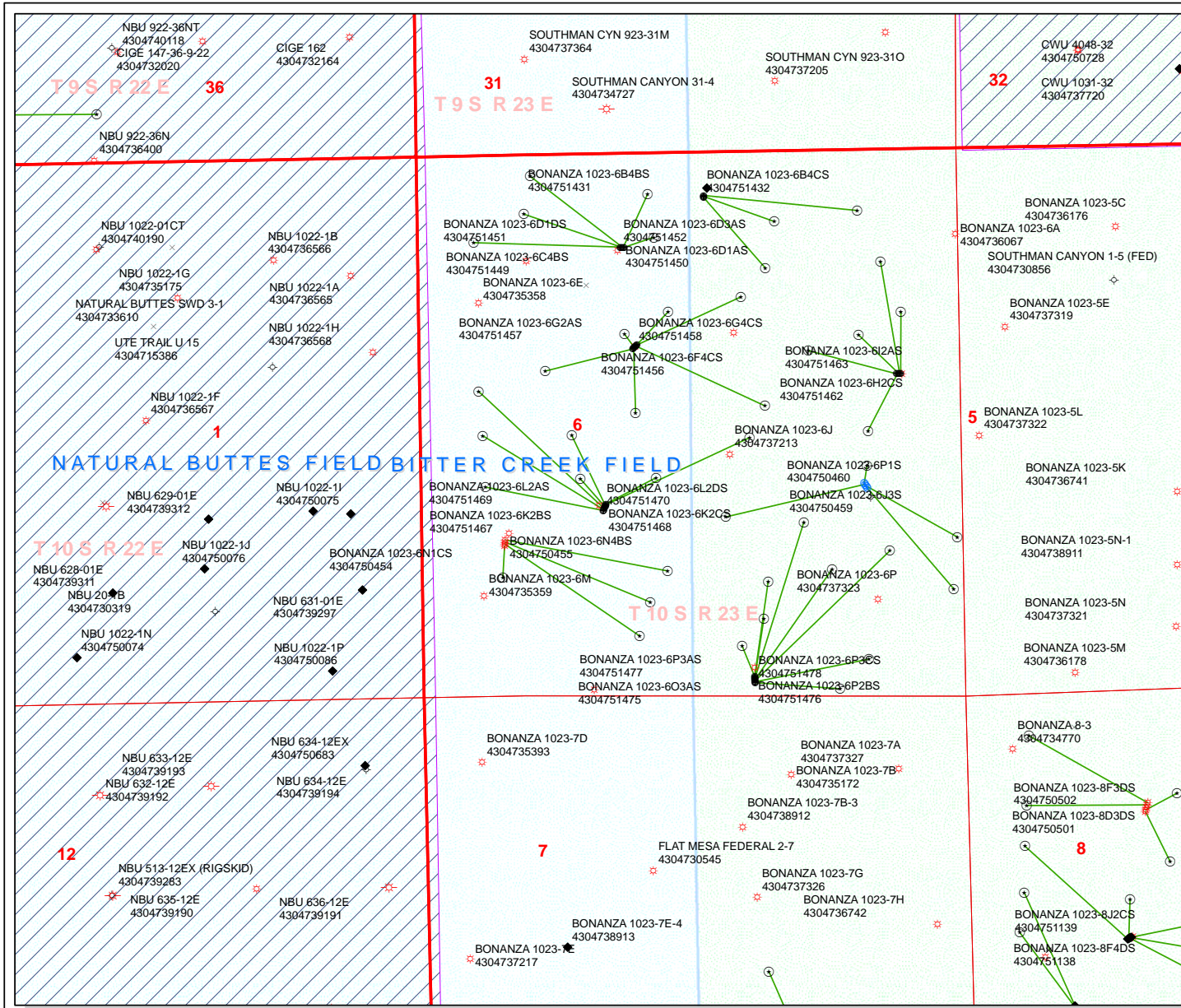
Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to Rule R6493-3 and Rule R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

A handwritten signature in blue ink that reads 'Jessy Pink'.

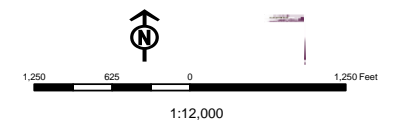
Jessy Pink
Landman



API Number: 4304751469
Well Name: BONANZA 1023-6L2AS
Township 10.0 S Range 23.0 E Section 06
Meridian: SLBM
Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
 Map Produced by Diana Mason

Units	Wells Query
STATUS	STATUS
ACTIVE	APD - Approved Permit
EXPLORATORY	DRL - Spudded (Drilling Commenced)
GAS STORAGE	GIW - Gas Injection
PP OIL	GS - Gas Storage
NF SECONDARY	LA - Location Abandoned
PI OIL	LOC - New Location
PP GAS	OPS - Operation Suspended
PP GEOTHERMAL	PA - Plugged Abandoned
PP OIL	PGW - Producing Gas Well
SECONDARY	POW - Producing Oil Well
TERMINATED	RET - Returned APD
Fields	SGW - Shut-in Gas Well
STATUS	SOW - Shut-in Oil Well
Unknown	TA - Temp. Abandoned
ABANDONED	TW - Test Well
ACTIVE	WDW - Water Disposal
INACTIVE	WIW - Water Injection Well
STORAGE	WSW - Water Supply Well
TERMINATED	
Sections	
Township	



WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 1/4/2011

API NO. ASSIGNED: 43047514690000

WELL NAME: BONANZA 1023-6L2AS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)

PHONE NUMBER: 720 929-6086

CONTACT: Gina Becker

PROPOSED LOCATION: NESW 06 100S 230E

Permit Tech Review: ☒

SURFACE: 1861 FSL 1708 FWL

Engineering Review: ☒

BOTTOM: 2590 FSL 0541 FWL

Geology Review: ☒

COUNTY: UINTAH

LATITUDE: 39.97580

LONGITUDE: -109.37219

UTM SURF EASTINGS: 639006.00

NORTHINGS: 4426130.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU38419

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- ☒ **PLAT**
- ☒ **Bond:** FEDERAL - WYB000291
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☒ **Water Permit:** Permit #43-8496
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☒ **Intent to Commingle**

Commingle Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**
- Unit:**
- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☒ **Drilling Unit**
- Board Cause No:** Cause 179-14
- Effective Date:** 6/12/2008
- Siting:** 460' Fr Exterior Drilling Unit Boundary
- ☒ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:
3 - Commingle - ddoucet
4 - Federal Approval - dmason
15 - Directional - dmason



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: BONANZA 1023-6L2AS

API Well Number: 43047514690000

Lease Number: UTU38419

Surface Owner: FEDERAL

Approval Date: 1/19/2011

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 179-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingling:

In accordance with Board Cause No. 179-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)
OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JAN 04 2011
2011FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010APPLICATION FOR PERMIT TO DRILL OR REENTER **BLM**

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU38419
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERR MCGEE OIL & GAS ONSHORE		7. If Unit or CA Agreement, Name and No.
Contact: GINA T BECKER Email: GINA.BECKER@ANADARKO.COM		8. Lease Name and Well No. BONANZA 1023-6L2AS
3a. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078	3b. Phone No. (include area code) Ph: 720-929-6086 Fx: 720-929-7086	9. API Well No. 43-047-51469
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NESW 1861FSL 1708FWL 39.97578 N Lat, 109.37272 W Lon At proposed prod. zone Lot 6 2590FSL 541FWL 39.97777 N Lat, 109.37687 W Lon		10. Field and Pool, or Exploratory NATURAL BUTTES BONANZA
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 51.7 MILES SOUTH OF VERNAL, UTAH		11. Sec., T., R., M., or Blk. and Survey or Area Sec 6 T10S R23E Mer SLB SME: BLM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 541	16. No. of Acres in Lease 516.80	12. County or Parish UINTAH
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 983	19. Proposed Depth 8861 MD 8598 TVD	13. State UT
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5221 GL	22. Approximate date work will start 06/30/2011	17. Spacing Unit dedicated to this well
		20. BLM/BIA Bond No. on file WYB000291
		23. Estimated duration 60-90 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) GINA T BECKER Ph: 720-929-6086	Date 01/04/2011
Title REGULATORY ANALYST II		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date NOV 07 2011
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #99925 verified by the BLM Well Information System
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal
Committed to AFMSS for processing by ROBIN R. HANSEN on 01/05/2011 (11RRH0729AE)

UDOGM

NOTICE OF APPROVAL
CONDITIONS OF APPROVAL ATTACHED

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

10RRH0300AE

NOV 4/26/2010



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Kerr McGee Oil & Gas Onshore
Well No: Bonanza 1023-6L2AS
API No: 43-047-51469

Location: NESW, Sec.6, T10S, R23E
Lease No: UTU-38419
Agreement: N/A

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut_vn_opreport@blm.gov .
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

Site Specific Conditions of Approval

General Conditions of Approval

- Kerr McGee will adhere to all applicant committed conservation measures and conservation recommendations that are stated in the USFWS's "Final Biological Opinion for the Anadarko Petroleum Corporation Natural Buttes Unit and Bonanza Area Natural Gas Development Project.
- The operator will follow the Green River District Reclamation Guidelines for Reclamation.
- During operations if any vertebrate paleontological resources are discovered, in accordance with Section 6 of Form 3100-11 and 43 CFR 3162.1, all operations affecting such sites shall be immediately suspended, and all discoveries shall be left intact until authorized to proceed by the Authorized Officer. The appropriate Authorized Officer of the Vernal BLM office shall be notified within 48 hours of the discovery, and a decision as to the preferred alternative/course of action will be rendered.

Mitigation for Invasive Weeds

- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas would be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established.
- Noxious and invasive weeds would be controlled throughout the area of project disturbance.
- Noxious weeds would be inventoried and reported to BLM in the annual reclamation report. Where an integrated pest management program is applicable, coordination has been undertaken with the state and local management program (if existing). A copy of the pest management plan would be submitted for each project.
- A pesticide use permit (PUP) would be obtained for the project, if applicable.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

- A copy of Kerr McGee's Standard Operating Practices (SOP version: dated 7/17/08 and approved 7/28/08) shall be on location.
- Surface casing cement shall be brought to surface.
- Production casing cement shall be brought 200' up and into the surface casing.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each

encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs,

core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU38419
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: BONANZA 1023-6L2AS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047514690000	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6516	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1861 FSL 1708 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 06 Township: 10.0S Range: 23.0E Meridian: S	COUNTY: UINTAH	
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 1/19/2012	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <input type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the
Utah Division of
Oil, Gas and Mining
 January 23, 2012

Date: _____

By: _____

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 1/17/2012



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047514690000

API: 43047514690000

Well Name: BONANZA 1023-6L2AS

Location: 1861 FSL 1708 FWL QTR NESW SEC 06 TWP 100S RNG 230E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 1/19/2011

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Danielle Piernot

Date: 1/17/2012

Title: Regulatory Analyst Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU38419
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 1861 FSL 1708 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 06 Township: 10.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047514690000
PHONE NUMBER: 720 929-6514		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 3/8/2012	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
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	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
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	<input type="checkbox"/> PLUG BACK	
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	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU TRIPPLE A BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL ON 03/08/2012 AT 1030 HRS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY March 16, 2012		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 3/14/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU AIR RIG ON MARCH 15, 2012. DRILLED SURFACE HOLE TO 2,555'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.		
		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY March 20, 2012
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 3/18/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
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COUNTY: UINTAH		STATE: UTAH			
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The operator requests approval for changes in the drilling plan. Specifically, the operator requests approval for a closed loop drilling option, a surface casing change and a production casing change. All other aspects of the previously approved drilling plan will not change. Please see the attachment. Thank you.					
Accepted by the Utah Division of Oil, Gas and Mining Date: March 20, 2012 By: <u>Derek Quist</u>					
NAME (PLEASE PRINT) Jaime Scharnowske		PHONE NUMBER 720 929-6304			
SIGNATURE N/A		TITLE Regulatory Analyst			
DATE 3/19/2012					

Kerr-McGee Oil & Gas Onshore. L.P.**BONANZA 1023-6L2AS**

Surface: 1861 FSL / 1708 FWL NESW
BHL: 2590 FSL / 541 FWL NWSW

Section 6 T10S R23E

Uintah County, Utah
Mineral Lease: UTU-38419

ONSHORE ORDER NO. 1**DRILLING PROGRAM**

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1,247'	
Birds Nest	1,512'	Water
Mahogany	1,874'	Water
Wasatch	4,276'	Gas
Mesaverde	6,439'	Gas
Sego	8,598'	Gas
TVD	8,598'	
TD	8,861'	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 8598' TVD, approximately equals
5,503 psi 0.64 psi/ft = actual bottomhole gradient

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,599 psi (bottom hole pressure
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press. (MASP) = (Pore Pressure at next csg point -
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.
Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- Blowout Prevention Equipment (BOPE) requirements;
- Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

Please refer to the attached Drilling Program.



COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP				DATE	March 19, 2012	
WELL NAME	BONANZA 1023-6L2AS				TD	8,598'	8,861' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION	5,219'
SURFACE LOCATION	NESW	1861 FSL	1708 FWL	Sec 6	T 10S	R 23E	
	Latitude:	39.975781	Longitude:	-109.372718		NAD 83	
BTM HOLE LOCATION	NWSW	2590 FSL	541 FWL	Sec 6	T 10S	R 23E	
	Latitude:	39.977767	Longitude:	-109.376872		NAD 83	
OBJECTIVE ZONE(S)	Wasatch/Mesaverde						
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.						





KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						LTC		DQX	
						BURST	COLLAPSE	TENSION	
CONDUCTOR	14"	0-40'							
						3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0 to 2,320	28.00	IJ-55	LTC	2.33	1.73	6.12	N/A
						7,780	6,350	223,000	267,035
PRODUCTION	4-1/2"	0 to 5,000	11.60	I-80	DQX	1.11	1.14		3.21
	4-1/2"	5,000 to 8,861'	11.60	I-80	LTC	1.11	1.14	6.15	

Surface Casing:

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe
 Fracture at surface shoe with 0.1 psi/ft gas gradient above
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.64 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
			+ 0.25 pps flocele				
Option 1	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2	LEAD	1,820'	65/35 Poz + 6% Gel + 10 pps gilsonite	170	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	3,771'	Premium Lite II +0.25 pps	300	35%	12.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	5,090'	50/50 Poz/G + 10% salt + 2% gel	1,200	35%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 centralizer on the first 3 joints and one every third joint thereafter.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

Nick Spence / Danny Showers / Chad Loesel

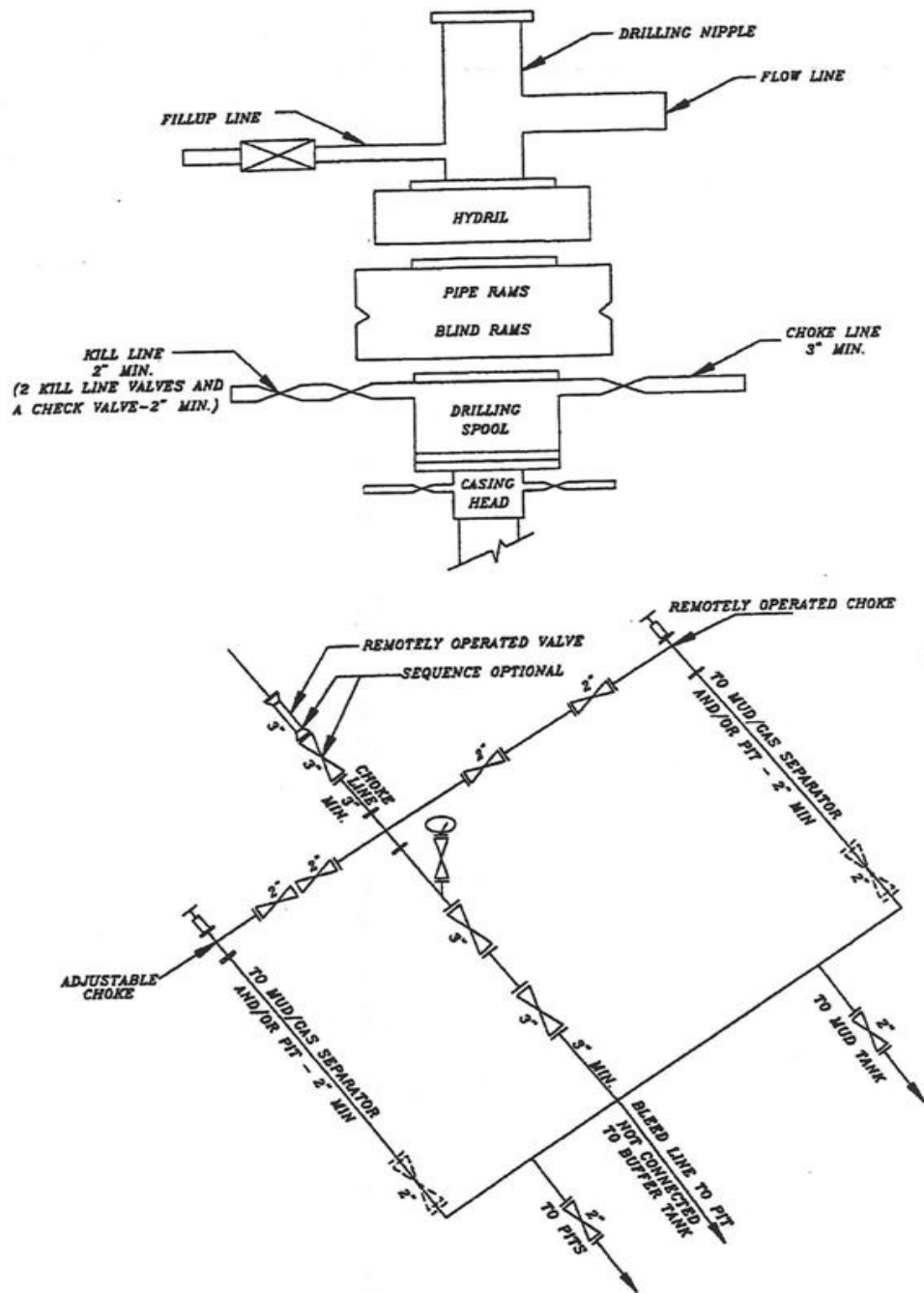
DATE:

DRILLING SUPERINTENDENT:

Kenny Gathings / Lovel Young

DATE:

EXHIBIT A
BONANZA 1023-6L2AS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

Requested Drilling Options:

Kerr-McGee will use either a closed loop drilling system that will require one pit and one cuttings storage area to be constructed on the drilling pad or a traditional drilling operation with one pit used for drilling and completion operations. The cuttings storage area will be used to contain only the de-watered drill cuttings and will be lined and bermed to prevent any liquid runoff. The drill cuttings will be buried in the completion pit once completion operations are completed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit will be lined with a synthetic material 20 mil or thicker and will be used for the completing of the wells on the pad or used as part of our Aandarko Completions Transportation System (ACTS). Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completions pit.

If Kerr-McGee does not use a closed loop drilling system, it will construct a traditional drilling/completions pit to contain drill cuttings and for use in completion operations. The pit will be lined with a synthetic material 20 mil or thicker. The drill cuttings will be buried in the pit using traditional pit closure standards.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078 Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751468	BONANZA 1023-6K2CS		NESW	6	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	18453	3/8/2012			3/20/2012	
Comments: MIRU TRIPPLE A BUCKET RIG. <u>WSMVD</u> SPUD WELL ON 03/08/2012 AT 1700 HRS. <u>BHL NESW</u>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751464	BONANZA 1023-6E3AS		NESW	6	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	18454	3/8/2012			3/20/2012	
Comments: MIRU TRIPPLE A BUCKET RIG. <u>WSMVD</u> SPUD WELL ON 03/08/2012 AT 1330 HRS. <u>BHL SWNW</u>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751469	BONANZA 1023-6L2AS		NESW	6	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	18455	3/8/2012			3/20/2012	
Comments: MIRU TRIPPLE A BUCKET RIG. <u>WSMVD</u> SPUD WELL ON 03/08/2012 AT 1030 HRS. <u>BHL NWSW</u>							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

SHEILA WOPSOCK

Name (Please Print)

Signature

REGULATORY ANALYST

Title

3/13/2012

Date

RECEIVED

MAR 15 2012

Div. of Oil, Gas & Mining

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU38419
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: BONANZA 1023-6L2AS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1861 FSL 1708 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 06 Township: 10.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047514690000
PHONE NUMBER: 720 929-6514		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 5/8/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU ROTARY RIG. FINISHED DRILLING FROM 2555' TO 8855' ON 5/5/2012. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED XTREME 12 RIG ON 5/8/2012 @ 7:30 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 10, 2012		
NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I
SIGNATURE N/A	DATE 5/10/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU38419
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: BONANZA 1023-6L2AS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1861 FSL 1708 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 06 Township: 10.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047514690000
5. FIELD and POOL or WILDCAT: NATURAL BUTTES		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 7/6/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER	
	OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. No activity for the month of June 2012. Well TD at 8,855'.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY July 09, 2012		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 7/6/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: BONANZA 1023-6L2AS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1861 FSL 1708 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 06 Township: 10.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047514690000
5. FIELD and POOL or WILDCAT: NATURAL BUTTES		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		COUNTY: UTAH
STATE: UTAH		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 8/2/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. No activity for the month of July 2012. Well TD at 8,855'.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY August 06, 2012		
NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I
SIGNATURE N/A	DATE 8/2/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: BONANZA 1023-6L2AS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1861 FSL 1708 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 06 Township: 10.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047514690000
PHONE NUMBER: 720 929-6514		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 8/29/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON AUGUST 29, 2012 AT 13:15 HOURS. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY August 31, 2012		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 8/31/2012	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU38419

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			6. If Indian, Allottee or Tribe Name		
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____			7. Unit or CA Agreement Name and No. UTU88209A		
2. Name of Operator KERR MCGEE OIL & GAS ONSHORE Mail: cara.mahler@anadarko.com			8. Lease Name and Well No. BONANZA 1023-6L2AS ✓		
3. Address 1099 18TH STREET, SUITE 1800 DENVER, CO 80202			3a. Phone No. (include area code) Ph: 720-929-6029		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NESW 1861FSL 1708FWL 39.975781 N Lat, 109.372717 W Lon At top prod interval reported below NWSW 2584FSL 546FWL At total depth NWSW Lot 6 2578FSL 563FWL 8 10S 23E BBL by HSM			9. API Well No. 43-047-51469		
14. Date Spudded 03/08/2012			15. Date T.D. Reached 05/05/2012		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 08/29/2012			17. Elevations (DF, KB, RT, GL)* 5219 GL		
18. Total Depth: MD 8855 TVD 8621		19. Plug Back T.D.: MD 8799 TVD 8565		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) SD/DSN/ACTR-BHV-CBL/GR/CCL/TEMP			22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis)		

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7	0	40		28			
11.000	8.625 IJ-55	28.0	0	2532		575		0	
7.875	4.500 P-110	11.6	0	8844		1380		1594	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	8285							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	6045	6522	6045 TO 6522	0.360	48	OPEN
B) MESAVERDE	7200	8675	7200 TO 8675	0.360	168	OPEN
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
6045 TO 8675	PUMP 8,067 BBLS SLICK H2O & 187,610 LBS 30/50 OTTAWA SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
08/29/2012	08/31/2012	24	→	0.0	2530.0	0.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	SI	2464.0	→	0	2530	0		PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #150795 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

RECEIVED

SEP 25 2012

BUREAU OF OIL, GAS & MINING

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				GREEN RIVER BIRD'S NEST MAHOGANY WASATCH MESAVERDE	1243 1530 2025 4505 6670

32. Additional remarks (include plugging procedure):

The first 210 ft. of the surface hole was drilled with a 12 7/8 in. bit. The remainder of the surface hole was drilled with an 11 in. bit. DQX csg was run from surface to 4,939 ft.; LTC 1-80 csg was run from 4,939 ft. to 8,844 ft. Attached is the chronological well history, perforation report & final survey.

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7. Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #150795 Verified by the BLM Well Information System.
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal

Name (please print) CARA MAHLERTitle AUTHORIZED REPRESENTATIVESignature (Electronic Submission)Date 09/18/2012

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6L2AS BLUE

Spud Date: 3/16/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6K PAD

Rig Name No: XTC 12/12, CAPSTAR 310/310

Event: DRILLING

Start Date: 12/8/2011

End Date: 5/8/2012

Active Datum: RKB @5,234.00usft (above Mean Sea Level)

UWI: NE/SW/0/10/S/23/E/6/0/0/26/PM/S/1861/W/0/1708/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
3/15/2012	18:00 - 20:30	2.50	DRLSUR	01	C	P		SKID RIG TO BONANZA 1023-6L2AS / 2 OF 7. RIG UP
	20:30 - 23:00	2.50	DRLSUR	01	B	P		WELD ON ROT HEAD, RU BLOWIE LINE
	23:00 - 0:00	1.00	DRLSUR	01	B	P		PU 12.25" BHA
3/16/2012	0:00 - 1:30	1.50	DRLSUR	02	D	P		SPUD
								DRLG 12.25" SURFACE HOLE F/40' T/ 210'
								ROP=110 ' @ FPH
								WOB= 24-28K
								RPM= 55/105
								SPP= 850/500
								GPM= 620
								TRQ= 2800/1700
								PU/SO/RT= 26/22/24
	1:30 - 2:00	0.50	DRLSUR	05	C	P		CIRC PRIOR TO TOH
	2:00 - 4:00	2.00	DRLSUR	06	A	P		TOH. LAY DOWN 12.25" BIT. PU 11.00" BIT AND DIR TOOLS, TIH
	4:00 - 7:00	3.00	DRLSUR	02	D	P		DRLG 11" SURFACE HOLE F/ 210' T/ 499'
								ROP=96 ' @ FPH
								WOB= 24-28K
								RPM= 55/105
3/17/2012								SPP= 1200/900
								GPM= 620
								TRQ= 2800/1700
								PU/SO/RT= 66/56/61
	7:00 - 8:00	1.00	DRLSUR	06	I	Z		TOH TO REPAIR DERRICK STAND PIPE
	8:00 - 13:00	5.00	DRLSUR	08	C	Z		FAILURE OF SECTION OF STANDPIPE ON DERRICK. REPAIR, WELD ON NEW SECTION
								TIH TO RESUME DRILLING
	13:00 - 14:00	1.00	DRLSUR	06	A	P		
	14:00 - 0:00	10.00	DRLSUR	02	D	P		DRLG 11" SURFACE HOLE F/ 499' T/ 1625'
								ROP=112 ' @ FPH
								WOB= 24-28K
								RPM= 55/105
								SPP= 1210/1020
								GPM= 620
								TRQ= 2800/1700
								PU/SO/RT= 81/65/74
	0:00 - 12:00	12.00	DRLSUR	02	D	P		DRLG 11" SURFACE HOLE F/ 1625' T/ 2555
								ROP=80 ' @ FPH
								WOB= 24-28K
								RPM= 55/105
								SPP= 1210/1030
								GPM= 620
								TRQ= 2800/1700
								PU/SO/RT= 81/66/73
								LOSS CIRC AT 1700', ON AIR 800/1000 CFM
	12:00 - 13:00	1.00	DRLSUR	05	C	P		CIRC PRIOR TO TRIP
	13:00 - 17:00	4.00	DRLSUR	06	A	P		POOH. LAY DOW DIR TOOLS, RU TO RUN CSG
	17:00 - 19:00	2.00	DRLSUR	12	C	P		PJSM /// RUN 57 JT'S, 8-5/8", 28#, J-55, LT&C CSG
	19:00 - 20:00	1.00	DRLSUR	12	B	P		/// SHOE SET @ 2516' /// BAFFLE @ 2471' CIRC CSG, RU CEMENTERS

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6L2AS BLUE

Spud Date: 3/16/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6K PAD

Rig Name No: XTC 12/12, CAPSTAR 310/310

Event: DRILLING

Start Date: 12/8/2011

End Date: 5/8/2012

Active Datum: RKB @5,234.00usft (above Mean Sea Level)

UWI: NE/SW0/10/S/23/E/6/0/0/26/PM/S/1861/W/0/1708/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	20:00 - 23:30	3.50	DRLSUR	12	E	P		//PJSM// PRESSURE TEST LINES TO 1000 PSI. PUMP 140 BBLS OF WATER AHEAD. PUMP 20 BBLS OF 8.3# GEL WATER AHEAD. PUMP (300 SX) 61.4 BBLS OF 15.8# 1.15 YD 5 GAL/SK PREMIUM CEMENT. DROP PLUG ON FLY. DISPLACE W/ 154 BBLS OF H2O. FINAL LIFT OF 190 PSI AT 4 BBL/MIN. BUMP PLUG W/500 PSI HELD FOR 5 MIN. FLOAT DID HOLD. PUMP (275 SX) 56.3 BBLS OF SAME TAIL CEMENT W/ 4% CALC. (2 TOPOUTS)DOWN BACKSIDE. WAIT 1.5 HOURS, IN BETWEEN EACH TOPOUT, SHUT DOWN AND CLEAN TRUCK. NO CEMENT TO SURFACE. WILL TOP OUT ON NEXT JOB
	23:30 - 0:00	0.50	DRLSUR	01	C	P		RELEASE RIG AT 00:00.
5/2/2012	9:00 - 10:00	1.00	MIRU	01	C	P		RIG DOWN CEMENTERS, SKID RIG TO BONANZA 1023-6E3AS WELL 3 OF 7 PULL CAT WALK FORWARD. INSTALL SKID RAILS. PREPARE RIG FOR SKID AND SKID RIG FORWARD 10'. RESET CATWALK AND INSTALL VIBRATING HOSES. CENTER AND LEVEL RIG OVER HOLE. BREAK DOWN CHOKE LINE TO SKID.
	10:00 - 11:30	1.50	MIRU	14	A	P		NIPPLE UP BOPE. TIGHTEN CAMERON QUICK FLANGE. ADD 22' EXTENSION TO CHOKE LINE. ADD EXTENSION TO FLOW LINE.
	11:30 - 16:30	5.00	MIRU	15	A	P		HOLD SAFETY MEETING. TEST TOP DRIVE VALVE, I-BOP VALVE, FLOOR VALVE, DART VALVE, PIPE AND BLIND RAMS, INSIDE AND OUTSIDE KILL LINE VALVES INSIDE CHOKE LINE VALVE, HCR VALVE, CHOKE LINE, CHOKE MANIFOLD VALVES AND CHOKES TO 5000 PSI FOR 10 MINUTES AND 250 PSI FOR 5 MINUTES. TEST ANNULAR TO 2500 PSI FOR 10 MIN AND 250 PSI FOR 5 MINUTES.
	16:30 - 17:00	0.50	MIRU	07	A	P		TESTING CASING TO 1500 PSI FOR 30 MINUTES. SERVICE RIG. SERVICE TOP DRIVE. SERVICE CROWN. PERFORMED PRESPUD SAFETY INSPECTION. PLACED GRATINGS OVER EXPOSED CELLARS.
	17:00 - 17:30	0.50	MIRU	15	A	P		INSTALL WEAR BUSHING WITH 8" ID WITH EVEN WEAR.
	18:00 - 21:00	3.00	MIRU	06	A	P		P/U WEATHERFORD 1.83 BH .16 RPG MOTOR (SN 625-3672). MADE UP SMITH MDI 616 BIT W/ 6-15'S (SN JF7951). SCRIBED MOTOR. P/U DOUBLE PIN, NON MAG TOOL CARRIER AND EM SUB. INSTALL EM TOOL. P/U MONEL AND CROSSOVER TO HWDP. TRIP IN HOLE WITH HEAVY WEIGHT DRILL PIPE @ 950'
	21:00 - 21:30	0.50	MIRU	02	D	P		INSTALL NEW ROTATING HEAD RUBBER. TRIP IN HOLE WITH DRILL PIPE. TAG CEMENT 2400'.

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6L2AS BLUE

Spud Date: 3/16/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6K PAD

Rig Name No: XTC 12/12, CAPSTAR 310/310

Event: DRILLING

Start Date: 12/8/2011

End Date: 5/8/2012

Active Datum: RKB @5,234.00usft (above Mean Sea Level)

UWI: NE/SW/0/10/S/23/E/6/0/0/26/PM/S/1861/W/0/1708/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	21:30 - 22:30	1.00	DRLPRO	02	F	P		REVIEW DIRECTIONAL PLANS AND PLATS AND VERIFY LAT/LONGS AND WELL ORDER. VERIFY DIRECTIONAL DRILLERS PLAN IS THE MOST RECENT AND APPROVED VERSION. REFERENCE WELLBORE DIAGRAMS FOR EXACT CASING DESIGN AND GENERAL OVERVIEW OF WELLBORE, PRIOR TO SPUD.
	22:30 - 0:00	1.50	DRLPRC	02	D	P		<p>SPUD 05/02/2012 21:30 DRILL CEMENT AND FLOAT EQUIPMENT 2400'- 2471'. SURFACE CASING SHOE @ 2516'. DRILLED WITH 15K ON BIT AND 45 RPM. @ 450 GPM.</p> <p>DRILL SLIDE 2561'-2713' (152', 101'/HR) WEIGHT ON BIT 18-22K. AVERAGE WEIGHT ON BIT 22K.</p> <p>ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517.</p> <p>ON/OFF PSI 1825/1500. DIFFERENTIAL 325. TORQUE HIGH/LOW 9200/7600. OFF BOTTOM TORQUE 3400</p> <p>STRING WEIGHT UP/DOWN/ROT 100/80/90. DRAG 10K.</p> <p>DRILL OUT OF SHOE @ 18.54 DEGREES HOLDING ANGLE @ 5' SOUTH AND 3" WEST OF LINE @ 2713'.</p> <p>SLIDE 36' AT 80'/HR. SLIDE 7% ROTATE 93%.</p> <p>RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.5 VIS 27.)</p> <p>USED 8 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 20 BBLS DRILL WATER INTO FORMATION. (LOSING 13 BBLS HR)</p> <p>PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES.</p> <p>PUMP 15 BBLS SWEEP EVERY 200'. (USE 80 BBLS LIGHT DRILL WATER WITH 32 VIS AS BASE FOR BUILDING SWEEPS.) (ADD 80 BBLS OF FRESH WATER FOR MAKE UP)</p> <p>NO FLARE. (BOP DRILL 45 SEC)</p>

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6L2AS BLUE

Spud Date: 3/16/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6K PAD

Rig Name No: XTC 12/12, CAPSTAR 310/310

Event: DRILLING

Start Date: 12/8/2011

End Date: 5/8/2012

Active Datum: RKB @5,234.00usft (above Mean Sea Level)

UWI: NE/SW0/10/S/23/E/6/0/0/26/PM/S/1861/W/0/1708/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
5/3/2012	0:00 - 5:00	5.00	DRLPRO	02	D	P		<p>DRILL SLIDE 2713'-3318' (605', 121'/HR) WEIGHT ON BIT 18-22K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 1825/1500. DIFFERENTIAL 325. TORQUE HIGH/LOW 9200/7600. OFF BOTTOM TORQUE 3400 STRING WEIGHT UP/DOWN/ROT 100/80/90. DRAG 10K. DRILL OUT OF SHOE @ 18.54 DEGREES HOLDING ANGLE @ 2' SOUTH AND 20' WEST OF LINE @ 3318'. SLIDE 154' AT 110'/HR. SLIDE 20% ROTATE 80%. RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.5 VIS 27.) USED 33 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 60 BBLS DRILL WATER INTO FORMATION. (LOSING 12 BBLS HR) PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES. PUMP 15 BBLS SWEEP EVERY 200'. (USE 60 BBLS LIGHT DRILL WATER WITH 32 VIS AS BASE FOR BUILDING SWEEPS.) (ADD 40 BBLS OF FRESH WATER FOR MAKE UP) NO FLARE. (BOP DRILL 45 SEC) RIG SERVICE. SERVICE TOP DRIVE. CHECK GENERATORS. SERVICE CROWN. CHECK BRAKE ADJUSTMENT AND TEST EMERGENCY STOP.</p>
	5:00 - 5:30	0.50	DRLPRO	07	A	P		

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6L2AS BLUE

Spud Date: 3/16/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6K PAD

Rig Name No: XTC 12/12, CAPSTAR 310/310

Event: DRILLING

Start Date: 12/8/2011

End Date: 5/8/2012

Active Datum: RKB @5,234.00usft (above Mean Sea Level)

UVM: NE/SW/0/10/S/23/E/6/0/0/26/PM/S/1861/W/0/1708/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	5:30 - 12:00	6.50	DRLPRO	02	D	P		<p>DRILL SLIDE 3318'-4149' (831', 127'/HR) WEIGHT ON BIT 18-22K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 1776/1367. DIFFERENTIAL 409. TORQUE HIGH/LOW 9200/7600. OFF BOTTOM TORQUE 3400 STRING WEIGHT UP/DOWN/ROT 100/80/90. DRAG 10K. START DROP @ 4000' 18.63 DEGREES DROPPING ANGLE @ 13' SOUTH AND 1" EAST OF LINE @ 4149'. SLIDE 279' AT 80'/HR. SLIDE 20% ROTATE 80%. RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.5 VIS 27.) USED 45 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 70 BBLS DRILL WATER INTO FORMATION. (LOSING 10.7 BBLS HR) PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES. PUMP 15 BBLS SWEEP EVERY 200'. (USE 60 BBLS LIGHT DRILL WATER WITH 32 VIS AS BASE FOR BUILDING SWEEPS.) (ADD 55 BBLS OF FRESH WATER FOR MAKE UP) NO FLARE.</p>
	12:00 - 17:30	5.50	DRLPRO	02	D	P		<p>DRILL SLIDE 4149'-4846' (697', 126'/HR) WEIGHT ON BIT 18-22K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 1873/1531. DIFFERENTIAL 342. TORQUE HIGH/LOW 10420/9080. OFF BOTTOM TORQUE 5600 STRING WEIGHT UP/DOWN/ROT 115/90/100. DRAG 15K. START DROP @ 4000' 7.50 DEGREES DROPPING ANGLE @ 25' SOUTH AND 12" EAST OF LINE @ 4846'. SLIDE 118' AT 80'/HR. SLIDE 13% ROTATE 87%. RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.5 VIS 27.) USED 38 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 60 BBLS DRILL WATER INTO FORMATION. (LOSING 10.9 BBLS HR) PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES. PUMP 15 BBLS SWEEP EVERY 200'. (USE 30 BBLS LIGHT DRILL WATER WITH 32 VIS AS BASE FOR BUILDING SWEEPS.) (ADD 80 BBLS OF FRESH WATER FOR MAKE UP) NO FLARE.</p>
	17:30 - 18:00	0.50	DRLPRO	07	A	P		<p>SERVICED TOP DRIVE, INSPECT BRAKES, EMERGENCY STOP 1 SECOND REACTION TIME.</p>

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6L2AS BLUE

Spud Date: 3/16/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6K PAD

Rig Name No: XTC 12/12, CAPSTAR 310/310

Event: DRILLING

Start Date: 12/8/2011

End Date: 5/8/2012

Active Datum: RKB @5,234.00usft (above Mean Sea Level)

UWI: NE/SW/0/10/S/23/E/6/0/0/26/PM/S/1861/W/0/1708/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	18:00 - 0:00	6.00	DRLPRO	02	D	P		<p>DRILL SLIDE 4846'-5668' (822', 137'./HR) WEIGHT ON BIT 18-22K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 2038/1732. DIFFERENTIAL 306. TORQUE HIGH/LOW 10316/8236. OFF BOTTOM TORQUE 3980 STRING WEIGHT UP/DOWN/ROT 140/100/120. DRAG 20K. VERTICAL @ 5166" 1.31 SLIDING TO STAY IN TARGET @ 3' NORTH AND 1" EAST OF LINE @ 5668'. SLIDE 37' AT 80'/HR. SLIDE 5% ROTATE 95%. RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.5 VIS 27.) USED 44 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 70 BBLS DRILL WATER INTO FORMATION. (LOSING 11.6 BBLS HR) PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES. PUMP 15 BBLS SWEEP EVERY 200'. (USE 30 BBLS LIGHT DRILL WATER WITH 32 VIS AS BASE FOR BUILDING SWEEPS.) (ADD 84 BBLS OF FRESH WATER FOR MAKE UP) NO FLARE.</p>
5/4/2012	0:00 - 5:30	5.50	DRLPRO	02	D	P		<p>DRILL SLIDE 5668'-6249' (581', 105'./HR) WEIGHT ON BIT 18-22K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 2229/1763. DIFFERENTIAL 466. TORQUE HIGH/LOW 10613/9564. OFF BOTTOM TORQUE 5397 STRING WEIGHT UP/DOWN/ROT 140/100/120. DRAG 20K. VERTICAL @ 6249' 1.06 SLIDING TO STAY IN TARGET @ 4' SOUTH AND 5' EAST OF LINE @ 6249'. SLIDE 12' AT 48'/HR. SLIDE 2% ROTATE 98%. RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.5 VIS 27.) USED 31 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 60 BBLS DRILL WATER INTO FORMATION. (LOSING 10.9 BBLS HR) PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES. PUMP 15 BBLS SWEEP EVERY 200'. (USE 30 BBLS LIGHT DRILL WATER WITH 32 VIS AS BASE FOR BUILDING SWEEPS.) (ADD 80 BBLS OF FRESH WATER FOR MAKE UP) NO FLARE.</p>

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6L2AS BLUE

Spud Date: 3/16/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6K PAD

Rig Name No: XTC 12/12, CAPSTAR 310/310

Event: DRILLING

Start Date: 12/8/2011

End Date: 5/8/2012

Active Datum: RKB @5,234.00usft (above Mean Sea Level)

UWI: NE/SW0/10/S/23/E/6/0/0/26/PM/S/1861/W/0/1708/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	5:30 - 6:00	0.50	DRLPRO	07	A	P		RIG SERVICE. SERVICE TOP DRIVE. CHECK GENERATORS. SERVICE CROWN. CHECK BRAKE ADJUSTMENT AND TEST EMERGENCY STOP.
	6:00 - 12:00	6.00	DRLPRO	02	D	P		DRILL SLIDE 6249'-6890' (641', 106'./HR) WEIGHT ON BIT 18-22K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 2229/1763. DIFFERENTIAL 466. TORQUE HIGH/LOW 10613/9564. OFF BOTTOM TORQUE 5397 STRING WEIGHT UP/DOWN/ROT 140/100/120. DRAG 20K. VERTICAL @ 6890' 1.81 SLIDING TO STAY IN TARGET @ 5' NORTH AND 5' WEST OF LINE @ 6890'. SLIDE 40' AT 48'/HR. SLIDE 7% ROTATE 93%. RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.5 VIS 27.) USED 35 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 60 BBLS DRILL WATER INTO FORMATION. (LOSING 10. BBLS HR) PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES. PUMP 15 BBLS SWEEP EVERY 200'. (USE 30 BBLS LIGHT DRILL WATER WITH 32 VIS AS BASE FOR BUILDING SWEEPS.) (ADD 60 BBLS OF FRESH WATER FOR MAKE UP) NO FLARE. UNLOAD THREE TRUCKS FROM JOHN BUNNING TRANSFER. CLEAN, DRIFT AND, TALLY CASING WITH B & C QUICK TEST. (BRAD PASSMAN) PRESENT FOR VISUAL INSPECTION FOR TUBULAR SOLUTIONS.

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-6L2AS BLUE

Spud Date: 3/16/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6K PAD

Rig Name No: XTC 12/12, CAPSTAR 310/310

Event: DRILLING

Start Date: 12/8/2011

End Date: 5/8/2012

Active Datum: RKB @5,234.00usft (above Mean Sea Level)

UWI: NE/SW0/10/S/23/E/6/0/0/26/PM/S/1861/W/0/1708/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	12:00 - 17:30	5.50	DRLPRO	02	D	P		<p>DRILL SLIDE 6890'-7395' (505', 91'./HR) WEIGHT ON BIT 18-22K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 2234/1857. DIFFERENTIAL 377. TORQUE HIGH/LOW 12103/9264. OFF BOTTOM TORQUE 8675 STRING WEIGHT UP/DOWN/ROT 155/115/130. DRAG 25K. VERTICAL @ 7395' 1.13 SLIDING TO STAY IN TARGET @ 2' NORTH AND 8' WEST OF LINE @ 7395'. SLIDE 8' AT 48'/HR. SLIDE 2% ROTATE 98%. RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.5 VIS 27.) USED 27 BBLs DRILL WATER FOR HOLE VOLUME. LOSS 60 BBLs DRILL WATER INTO FORMATION. (LOSING 10.9 BBLs HR) PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES. PUMP 15 BBLs SWEEP EVERY 200'. (ADD 60 BBLs OF FRESH WATER FOR MAKE UP) NO FLARE.</p> <p>CLEAN, DRIFT AND, TALLY CASING WITH B & C QUICK TEST. (BRAD PASSMAN) PRESENT FOR VISUAL INSPECTION FOR TUBULAR SOLUTIONS. ON LOCATION FOR 7 HOURS. SERVICED TOP DRIVE, INSPECT BRAKES, EMERGANCY STOP 1 SECOND REACTION TIME.</p>
	17:30 - 18:00	0.50	DRLPRO	07	A	P		

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6L2AS BLUE

Spud Date: 3/16/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6K PAD

Rig Name No: XTC 12/12, CAPSTAR 310/310

Event: DRILLING

Start Date: 12/8/2011

End Date: 5/8/2012

Active Datum: RKB @5,234.00usft (above Mean Sea Level)

UWI: NE/SW/0/10/S/23/E/6/0/0/26/PM/S/1861/W/0/1708/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	18:00 - 0:00	6.00	DRLPRO	02	D	P		<p>DRILL SLIDE 7395'-7844' (449', 74'./HR) WEIGHT ON BIT 18-22K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 2299/1944. DIFFERENTIAL 355. TORQUE HIGH/LOW 13000/10666. OFF BOTTOM TORQUE 9875 STRING WEIGHT UP/DOWN/ROT 160/120/135. DRAG 25K. VERTICAL @ 7844' 1.31 SLIDING TO STAY IN TARGET @ 2' NORTH AND 2' WEST OF LINE @ 7844'. SLIDE 80' AT 48'/HR. SLIDE 2% ROTATE 98%. RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.5 VIS 27.) USED 27 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 60 BBLS DRILL WATER INTO FORMATION. (LOSING 10.9 BBLS HR) PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES. PUMP 15 BBLS SWEEP EVERY 200'. (ADD 60 BBLS OF FRESH WATER FOR MAKE UP) NO FLARE.</p> <p>AT 7500 STOPPED DEWATERING AND WENT CONVENTIONAL. (MUD OUT WT 8.6 VIS 29 / MUD IN WT 8.7/ VIS 30.) DRILL 7844'-8234' (390',71'/HR) WEIGHT ON BIT 18-25K. AVERAGE WEIGHT ON BIT 24K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 2500/2200. DIFFERENTIAL 300. TORQUE HIGH/LOW 12100/9700. OFF BOTTOM TORQUE 9200 STRING WEIGHT UP/DOWN/ROT 180/128/142. DRAG 38K. 10' NORTH AND 2' WEST OF CENTER @8234'. SLIDE 36' SLIDE 8% ROTATE 92%. RUNNING SOLID CONTROL EQUIPMENT CONVENTIONAL. (MUD OUT WT 9.0 VIS 32 / MUD IN WT 9.0/ VIS 32.) USED 21 BBLS FOR HOLE VOLUME. LOSS 36 BBLS INTO FORMATION. (LOSING 6 BBLS HR).MIX 5% LCM SWEEP EVERY 100' TO HELP CONTROL LOSSES. NO FLAIR</p>
5/5/2012	0:00 - 5:30	5.50	DRLPRO	02	D	P		
	5:30 - 6:00	0.50	DRLPRO	07	A	P		<p>RIG SERVICE. SERVICE TOP DRIVE. CHECK GENERATORS. SERVICE CROWN. CHECK BRAKE ADJUSTMENT AND TEST EMERGENCY STOP.</p>

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6L2AS BLUE

Spud Date: 3/16/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6K PAD

Rig Name No: XTC 12/12, CAPSTAR 310/310

Event: DRILLING

Start Date: 12/8/2011

End Date: 5/8/2012

Active Datum: RKB @5,234.00usft (above Mean Sea Level)

UWI: NE/SW/0/10/S/23/E/6/0/0/26/PM/S/1861/W/0/1708/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 12:00	6.00	DRLPRO	02	D	P		<p>DRILL 8234'-8632' (398'.66'/HR)</p> <p>WEIGHT ON BIT 18-25K. AVERAGE WEIGHT ON BIT 24K.</p> <p>ROTARY RPM 65. MUD MOTOR RPM 82.</p> <p>STROKES PER MINUTE 115 GALLONS PER MINUTE 517.</p> <p>ON/OFF PSI 2576/2470. DIFFERENTIAL 106.</p> <p>TORQUE HIGH/LOW 1300/11279. OFF BOTTOM TORQUE 9900</p> <p>STRING WEIGHT UP/DOWN/ROT 180/128/142. DRAG 38K.</p> <p>1' SOUTH AND 8' EAST OF CENTER @8632'.</p> <p>SLIDE 0'</p> <p>SLIDE 0% ROTATE 100%.</p> <p>RUNNING SOLID CONTROL EQUIPMENT CONVENTIONAL.</p> <p>(MUD OUT WT 9.0 VIS 32 / MUD IN WT 9.0/ VIS 32.)</p> <p>USED 21 BBLS FOR HOLE VOLUME.</p> <p>LOSS 36 BBLS INTO FORMATION. (LOSING 6 BBLS HR).MIX 5% LCM SWEEP EVERY 100' TO HELP CONTROL LOSSES</p> <p>NO FLAIR, IGNITER FOR THE FLAIR STACK IS OUT, C&G ELECTRIC ARE ON THE WAY TO FIX IT</p> <p>(START HEAVY MUD UP @ 8430'. DISPLACED 790 BBLS OF 11.5# MUD INTO SYSTEM. DISPLACED OUT 780 BBLS OF 8.6# DRILL WATER INTO UPRIGHTS.</p> <p>WE ENDED UP WITH 11.0# MUD WITH 39 VIS AFTER DISPLACING IN HEAVY MUD.)</p>

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6L2AS BLUE

Spud Date: 3/16/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6K PAD

Rig Name No: XTC 12/12, CAPSTAR 310/310

Event: DRILLING

Start Date: 12/8/2011

End Date: 5/8/2012

Active Datum: RKB @5,234.00usft (above Mean Sea Level)

UWI: NE/SW/0/10/S/23/E/6/0/0/26/PM/S/1861/W/0/1708/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	12:00 - 15:30	3.50	DRLPRO	02	D	P		<p>DRILL 8632'-8855' (223',63'/HR) TD @ 05/05/2012 15:30</p> <p>WEIGHT ON BIT 18-25K. AVERAGE WEIGHT ON BIT 24K.</p> <p>ROTARY RPM 65. MUD MOTOR RPM 82.</p> <p>STROKES PER MINUTE 115 GALLONS PER MINUTE 517.</p> <p>ON/OFF PSI 2667/2465. DIFFERENTIAL 202.</p> <p>TORQUE HIGH/LOW 13000/11279. OFF BOTTOM TORQUE 9900</p> <p>STRING WEIGHT UP/DOWN/ROT 190/135/160. DRAG 30K.</p> <p>6' SOUTH AND 16' EAST OF CENTER @8855'.</p> <p>SLIDE 0' ROTATE TO TD</p> <p>SLIDE 0% ROTATE 100%.</p> <p>NOT RUNNING SOLID CONTROL EQUIPMENT .</p> <p>(MUD OUT WT 10.9#/ VIS 43 / MUD IN WT 11.0#/ VIS 38.)</p> <p>USED 12 BBLs FOR HOLE VOLUME.</p> <p>LOSS 20 BBLs INTO FORMATION. (LOSING 5 BBLs HR).MIX 5% LCM SWEEP EVERY 100' TO HELP CONTROL LOSSES.</p> <p>20' FLAIR ON 3 CONNECTIONS FOR 10 MINUTES-15,397 SCF</p> <p>15' FLAIR DRILLING FOR 1 HOUR-16,783 SCF</p> <p>NO FLAIR, IGNITER FOR THE FLAIR STACK IS OUT, C&G ELECTRIC ARE ON THE WAY TO FIX IT</p> <p>STARTED WEIGHTING MUD UP WITH BAR @ 8750'. (SLIGHT LOSSES) PUMP 30 BBL 15% LCM SWEEP. CIRCULATE AROUND.</p> <p>MUD AT TD 11.3# 43 VIS IN 11.0# 42 VIS OUT</p> <p>CIRCULATE AND CONDITION. RAISE MUD WT TO 11.5#</p> <p>PUMP 30 BBL 15% LCM SWEEP. CIRCULATE AROUND.</p> <p>WORK PIPE FULL JOINT WHILE CIRCULATING.</p> <p>MUD IN WEIGHT 11.5#/ VIS 45. MUD OUT WEIGHT 11.2#/ VIS 45.</p> <p>MUD CLEAN COMING OVER SHAKERS BUT SLIGHTLY GAS CUT.</p> <p>(15' FLARE FOR 1.5 HOUR-25,175 SCF)</p>
	15:30 - 17:30	2.00	EVALPR	05	A	P		<p>SERVICED TOP DRIVE, INSPECT BRAKES, EMERGENCY STOP 1 SECOND REACTION TIME.</p>
	17:30 - 18:00	0.50	EVALPR	07	A	P		<p>STILL HAVE 10' FLAIR</p>
	18:00 - 20:00	2.00	EVALPR	05	A	P		<p>PUMP 30 BBL 15% LCM SWEEP. CIRCULATE AROUND.</p> <p>CIRCULATE AND RAISE MUD WEIGHT TO (11.6# 45 VIS IN 11.6# 45 VIS OUT)</p> <p>WORK PIPE FULL JOINT WHILE CIRCULATING.</p> <p>CHECK FOR FLOW. NO FLOW.</p> <p>(10' FLARE FOR 1 HOUR-7,135 SCF)</p> <p>MIX UP 60 BBL 13# PILL AND HOLD FOR DRY JOB.</p>

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6L2AS BLUE

Spud Date: 3/16/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6K PAD

Rig Name No: XTC 12/12, CAPSTAR 310/310

Event: DRILLING

Start Date: 12/8/2011

End Date: 5/8/2012

Active Datum: RKB @5,234.00usft (above Mean Sea Level)

UWI: NE/SW/0/10/S/23/E/6/0/0/26/PM/S/1861/W/0/1708/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	20:00 - 0:00	4.00	EVALPR	06	D	P		HOLE PULLED SLICK. PULLED ABOUT 60 K OVER STRING WEIGHT OFF BOTTOM. PUMP DRY JOB @ 8800'. HOLE TAKING PROPER FLUID. NO FLOW ON FLOW CHECKS. NO TIGHT DURING TRIP OUT
5/6/2012	0:00 - 0:30	0.50	EVALPR	06	E	P		TRIP OUT TO SURFACE CASING SHOE FOR SHORT WIPER TRIP, NO TIGHT HOLE ON TRIP OUT HOLE TAKING PROPER FILL, NO FLOW ON FLOW CHECKS.
	0:30 - 1:00	0.50	EVALPR	07	A	P		SERVICE RIG, CHANGE OIL IN TOP DRIVE, CHECK BRAKE LINKAGE AND DISC'S FOR GAP AND WEAR, FUNCTION EMERGENCY STOP.
	1:00 - 6:00	5.00	EVALPR	06	E	P		TRIP BACK TO BOTTOM, HIT A BRIDGE @ 4630', REAMED THROUGH A BRIDGE @ 5300', REAMED LAST 50' TO BOTTOM (8805'-8855') 20' OF FILL ON BOTTOM.
	6:00 - 8:00	2.00	EVALPR	05	A	P		CIRCULATE AND CONDITION HOLE/MUD, PUMP 30 BBL 15% LCM SWEEP CIRCULATE AROUND MUD WEIGHT IN 11.6# 45 VIS, MUD WEIGHT OUT 11.6# 45 VIS, MUD CLEAN COMING OVER SHAKER'S BUT SLIGHTLY GASS CUT BUILD 13# 60 BBL DRY JOB 20% LOSS CIRCULATION MATERIAL. 15' FLAIR FOR 1 HOUR-16,783 SCF NO FLOW ON FLOW CHECK
	8:00 - 15:00	7.00	EVALPR	06	D	P		PULLING OFF BOTTOM WITH 60 K OVER STRING WEIGHT PUMP 20 BBLS OF DRY JOB @ 8533', PUMPED SECOND DRY JOB @ 5500', NO TIGHT HOLE ON TRIP OUT, MUD WEIGHT IN 11.6# 45 VIS MUD WEIGHT OUT 11.5# 45 VIS NO FLOW ON FLOW CHECKS PULL ROTATING HEAD RUBBER LAY DOWN DIRECTIONAL TOOL'S, BREAK MOTOR AND, BIT HOLE TOOK PROPER FILL NO FLOW
	15:00 - 19:00	4.00	EVALPR	11	D	P		HOLD SAFETY MEETING WITH HALLIBURTON LOGGERS. RIG UP LOGGERS. PICK UP TRIPLE COMBO TOOLS. RUN IN HOLE WITH BOWSPRING BRIDGED OUT @ 4030' CAME OUT AND REMOVED BOWSPRING, BRIDGED OUT @ 4030' DID NOT LOG OUT PULLED LOGGING TOOLS AND RIGGED DOWN LOGGING CREW
	19:00 - 22:00	3.00	EVALPR	06	E	X		PICK UP SAME MOTOR AND BIT, RUN HEAVEY WEIGHT DRILL PIPE, INSTALL ROTATING HEAD RUBBER. FLOW CHECK NO FLOW
	22:00 - 23:30	1.50	EVALPR	09	A	P		SLIP AND CUT 58.5' OF DRILL LINE
	23:30 - 0:00	0.50	EVALPR	06	E	X		RUN IN HOLE TO 2910' WITH DRILL PIPE.

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6L2AS BLUE

Spud Date: 3/16/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6K PAD

Rig Name No: XTC 12/12, CAPSTAR 310/310

Event: DRILLING

Start Date: 12/8/2011

End Date: 5/8/2012

Active Datum: RKB @5,234.00usft (above Mean Sea Level)

UWI: NE/SW0/10/S/23/E/6/0/0/26/PM/S/1861/W/0/1708/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
5/7/2012	0:00 - 3:30	3.50	EVALPR	06	E	X		TRIP IN HOLE, HIT A BRIDGE @ 6500', WASH AND REAM LAST 45' TO BOTTOM, NO FILL NO FLOW ON FLOW CHECKS
	3:30 - 5:30	2.00	EVALPR	05	A	X		CIRCULATE AND CONDITION MUD/HOLE, MUD WEIGHT IN 11.6# 45 VIS MUD WEIGHT OUT 11.6# 42 VIS PUMP 15% LCM SWEEP CIRCULATE AROUND MUD CLEAN COMMING OVER SHAKERS BUT SLIGHTLY GASS CUT NO FLOW ON FLOW CHECKS 5' FLAIR FOR 30 MINUTES-827 SCF
	5:30 - 6:00	0.50	EVALPR	07	A	P		SERVICED TOP DRIVE, INSPECT BRAKES, EMERGENCY STOP 1 SECOND REACTION TIME.
	6:00 - 11:30	5.50	EVALPR	06	E	X		TRIP OUT PULLING 50 K OVER STRING WEIGHT, PUMP AND ROTATE 5 JOINTS OFF BOTTOM PUMP 30 BBLs OF 13# DRY JOB PULL ROTATING HEAD RUBBER, HEAVY WEIGHT DRILL PIPE. BREAK BIT, LAY DOWN MOTOR NO TIGHT HOLE ON TRIP OUT
	11:30 - 12:00	0.50	EVALPR	07	A	P		PULL WEAR BUSHING. RIG SERVICE. SERVICE TOP DRIVE. CHECK GENERATORS. SERVICE CROWN. CHECK BRAKE ADJUSTMENT AND TEST EMERGENCY STOP.
	12:00 - 17:00	5.00	EVALPR	11	D	P		HOLD SAFETY MEETING WITH HALLIBURTON LOGGERS. RIG UP LOGGERS. PICK UP TRIPLE COMBO TOOLS. RUN IN HOLE WITH BOWSPRING BRIDGED OUT @ 5227' CAME OUT AND REMOVED BOWSPRING, BRIDGED OUT @ 5227'
	17:00 - 17:30	0.50	CSGPRO	12	B	P		LOGG OUT FROM 5227' PULLED LOGGING TOOLS AND RIGGED DOWN LOGGING CREW HOLD SAFETY MEETING WITH KIMZEY CASING. TAKE OFF RIG ELEVATORS AND INSTALL CASING ELEVATORS. RIG DOWN FLOOR TONGES AND RIG UP INTERGRATED TONGES.

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6L2AS BLUE

Spud Date: 3/16/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6K PAD

Rig Name No: XTC 12/12, CAPSTAR 310/310

Event: DRILLING

Start Date: 12/8/2011

End Date: 5/8/2012

Active Datum: RKB @5,234.00usft (above Mean Sea Level)

UWI: NE/SW/0/10/S/23/E/6/0/0/26/PM/S/1861/W/0/1708/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	17:30 - 0:00	6.50	CSGPRO	12	C	P		<p>MAKE UP 4.5" L-80 LTC AUTO FILL FLOAT SHOE ON SHOE JOINT WITH THREAD LOCK. MAKE UP 4.5" L-80 AUTO FILL FLOAT COLLAR W/ THREAD LOCK ON TOP OF SHOE JOINT.</p> <p>RUN CENTRALIZERS ON FIRST 3 JOINTS AND EVERY THIRD JOINT FOR TOTAL OF 15 JOINTS. INSTALL ROTATING HEAD @ 1800'.</p> <p>RUN A TOTAL OF 92 JOINTS OF 4.5" 11.6# I-80 LTC CASING (3863.34').</p> <p>MAKE UP DQX CROSS OVER JOINT AND RIG UP TORQUE TURN, PERFORM DUMP TEST.</p> <p>RUN A TOTAL 96 JOINTS OF 4.5" 11.6# I-80 DQX CSG WITH TORQUE TURN (3005.76'). (TSI HAND RONNIE STARK WITNESSING CASING JOB). RAN CASING TO BOTTOM. NO BAD JOINTS ON RUN.</p> <p>FILLED CASING AND CIRCULATED AT 2500' AND 5000'.</p> <p>GOOD CIRCULATION WITH NO LOSSES WAS ESTABLISHED.</p>
5/8/2012	0:00 - 1:30	1.50	CSGPRO	12	C	P		<p>6869.1' @ MIDNIGHT</p> <p>RUN A TOTAL 114 JOINTS OF 4.5" 11.6# I-80 DQX CSG WITH TORQUE TURN (4981.06'). (TSI HAND RONNIE STARK WITNESSING CASING JOB). RAN CASING TO BOTTOM. NO BAD JOINTS ON RUN.</p> <p>FILLED CASING AND CIRCULATED AT 2500' AND 5000'.</p> <p>GOOD CIRCULATION WITH NO LOSSES WAS ESTABLISHED.</p> <p>TOTAL OF 92 JOINTS OF 4.5" 11.6# I-80 LTC (3651') TOTAL 114 JOINTS OF 4.5" 11.6# I-80 DQX CSG (4994')</p> <p>SET FLOAT SHOE @ 8844.40' KB SET TOP OF FLOAT COLLAR @ 8799.26' KB. SET TOP OF MESA MARKER JT @ 6626.61' KB. SET TOP DQX TO LTC CROSS OVER JT @ 4917.81' KB.</p>
	1:30 - 3:00	1.50	CSGPRO	05	D	P		<p>CLEAN MUD TANKS</p> <p>CIRCULATE WITH 11.6# MUD 45 VIS.</p> <p>3' FLARE FOR 15 MINUTES ON BOTTOMS UP GAS. TOTAL OF 141 SCF.</p> <p>GOOD CIRCULATIONS WITH NO LOSSES @ 450 GPM 900 PSI.</p> <p>HOLD SAFETY MEETING AND RIG DOWN CASING CREW. HOLD SAFETY MEETING AND RIG UP BAKER HUGHES CEMENT VOLUME ON LOCATION @ 05/08/2012 00:30</p>

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6L2AS BLUE

Spud Date: 3/16/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6K PAD

Rig Name No: XTC 12/12, CAPSTAR 310/310

Event: DRILLING

Start Date: 12/8/2011

End Date: 5/8/2012

Active Datum: RKB @5,234.00usft (above Mean Sea Level)

UWI: NE/SW0/10/S/23/E/6/0/0/26/PM/S/1861/W/0/1708/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	3:00 - 6:30	3.50	CSGPRO	12	E	P		<p>RIG UP CEMENT HEAD WITH TOP PLUG INSTALLED. PRESSURE TEST LINES TO 5000 PSI.</p> <p>PUMP 25 BBLS OF FRESH WATER. PUMP 156 BBLS (390 SX) OF 12.0# 2.26 YIELD 12.48 GAL/SK OF LEAD CEMENT. PUMP 230 BBLS (990SX) OF 14.3# 1.31 YIELD 5.91 GAL/SK POZ 50/50 TAIL CEMENT. SHUT DOWN AND FLUSH LINES. DROP TOP PLUG</p> <p>DISPLACE WITH 137.1 BBLS OF FRESH WATER TREATED WITH CLAYFIX AND MAGNACIDE. LOST RETURNS ON THE LAST 17 BBLS OF DISPLACEMENT. SLOW PUMP RATE TO 2 BBLS PER MINUTE. RETURNED WITH 0 BBLS OF CEMENT.</p> <p>LIFT PSI OF 2457 @ 2 BBLS MINUTE.</p> <p>BUMP PLUG WITH 2990 PSI. . PRESSURE HELD 5 MINUTES. FLOAT HELD. FLOW BACK 1.5 BBLS.</p> <p>ESTIMATED TOP OF CEMENT FOR LEAD 50'. ESTIMATED TOP OF CEMENT FOR TAIL 3700'. RIG DOWN CEMENTERS. FLUSH STACK WITH FRESH WATER.</p> <p>SET PACKER ON MANDRILL, SKID CATWALK FOWORD AND TIGHTEN ALL CAMERON HEADS TO MAKE SURE THEY TEST. RIG DOWN FLOW LINE. NIPPLE DOWN BOPE. NIPPLE DOWN CHOKE LINE. P/U STACK. STORED 790 BBLS OF 11.6# MUD IN UPRIGHTS. RELEASE RIG 05/08/2012 07:30.</p>
	6:30 - 7:30	1.00	CSGPRO	14	A	P		

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	BONANZA 1023-6L2AS BLUE	Wellbore No.	OH
Well Name	BONANZA 1023-6L2AS	Wellbore Name	BONANZA 1023-6L2AS
Report No.	1	Report Date	8/9/2012
Project	UTAH-UINTAH	Site	BONANZA 1023-6K PAD
Rig Name/No.		Event	COMPLETION
Start Date	8/9/2012	End Date	8/29/2012
Spud Date	3/16/2012	Active Datum	RKB @5,234.00usft (above Mean Sea Level)
UWI	NE/SW/0/10/S/23/E/6/0/0/26/PM/S/1861/W/0/1708/0/0		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type		Fluid Density		Gross Interval	6,045.0 (usft)-8,675.0 (usft)	Start Date/Time	8/9/2012 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	44	End Date/Time	8/9/2012 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	216	Net Perforation Interval	58.00 (usft)
Hydrostatic Press		Press Difference		Avg Shot Density	3.72 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL					Final Press Date	

1.5 Summary

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
8/9/2012 12:00AM	WASATCH/			6,045.0	6,051.0	4.00		0.360	EXP/	3.375	90.00			23.00 PRODUCTION	

2.1 Perforated Interval (Continued)

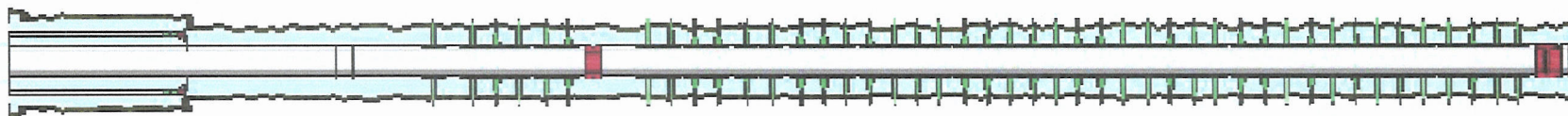
Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
8/9/2012 12:00AM	WASATCH/			6,333.0	6,334.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	WASATCH/			6,380.0	6,381.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	WASATCH/			6,399.0	6,400.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	WASATCH/			6,498.0	6,500.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	WASATCH/			6,521.0	6,522.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			7,200.0	7,201.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			7,229.0	7,230.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			7,282.0	7,283.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			7,312.0	7,315.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			7,434.0	7,436.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			7,506.0	7,508.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			7,634.0	7,636.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			7,673.0	7,674.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			7,680.0	7,681.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			7,728.0	7,729.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			7,785.0	7,786.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			7,809.0	7,810.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			7,823.0	7,824.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			7,904.0	7,905.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			7,926.0	7,927.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			7,955.0	7,956.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
8/9/2012 12:00AM	MESAVERDE/			7,989.0	7,990.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			8,017.0	8,018.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			8,029.0	8,030.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			8,056.0	8,057.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			8,078.0	8,079.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			8,141.0	8,142.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			8,162.0	8,163.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			8,202.0	8,203.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			8,211.0	8,212.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			8,286.0	8,288.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			8,329.0	8,330.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			8,346.0	8,347.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			8,386.0	8,387.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			8,406.0	8,407.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			8,427.0	8,428.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			8,440.0	8,442.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			8,460.0	8,461.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			8,501.0	8,502.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			8,572.0	8,573.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			8,610.0	8,611.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/9/2012 12:00AM	MESAVERDE/			8,665.0	8,667.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
8/9/2012 12:00AM	MESAVERDE/			8,674.0	8,675.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

3 Plots**3.1 Wellbore Schematic**

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6L2AS BLUE

Spud Date: 3/16/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6K PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: COMPLETION

Start Date: 8/9/2012

End Date: 8/29/2012

Active Datum: RKB @5,234.00usft (above Mean Sea Level)

UWI: NE/SW/0/10/S/23/E/6/0/0/26/PM/S/1861/W/0/1708/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
3/16/2012	-							
8/9/2012	10:30 - 12:00	1.50	COMP	33	C	P		FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 19 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 63 PSI. 1ST PSI TEST T/ 7000 PSI. HELD FOR 30 MIN LOST 94 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. MOVE T/ NEXT WELL. SWFW
8/10/2012	7:00 - 10:00	3.00	COMP	37		P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. SWFW
8/15/2012	7:00 - 7:15	0.25	FRAC	48		P		jsa-safety meeting

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6L2AS BLUE

Spud Date: 3/16/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6K PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: COMPLETION

Start Date: 8/9/2012

End Date: 8/29/2012

Active Datum: RKB @5,234.00usft (above Mean Sea Level)

UWI: NE/SW/0/10/S/23/E/6/0/0/26/PM/S/1861/W/0/1708/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 17:00	9.75	FRAC	36	E	P		<p>FRAC STG 1) WHP = 1580 PSI, BRK 3412 PSI @ 6.5 BPM. ISIP 3228 PSI, FG = 0.81. CALC PERFS OPEN @ 50.9 BPM @ 4116 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN) ISIP 2452 PSI, FG = 0.72, NPI = - 776 PSI. MP 4805 PSI, MR 50.9 BPM, AP 4233 PSI, AR 47.8 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8491' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 2) WHP = 2187 PSI, BRK 2908 PSI @ 9.5 BPM. ISIP 2314 PSI, FG = 0.71. CALC PERFS OPEN @ 50.8 BPM @ 4255 PSI = 98% HOLES OPEN. (20/21 HOLES OPEN) ISIP 2495 PSI, FG = 0.73, NPI = 181 PSI. MP 4826 PSI, MR 51BPM, AP 4187 PSI, AR 49.2 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8318' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 3) WHP = 2128 PSI, BRK 3567 PSI @ 7.3 BPM. ISIP = 2130 PSI, FG = 0.69. CALC PERFS OPEN @ 50.8 BPM @ 4301 PSI = 88% HOLES OPEN. (21/24 HOLES OPEN) ISIP 2657 PSI, FG = 0.76, NPI = 527 PSI. MP 5579 PSI, MR 51 BPM, AP 4362 PSI, AR 50.5 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 8109' P/U PERF AS PER DESIGN. POOH, SWIFN.</p> <p>FRAC STG 4) WHP = 564 PSI, BRK 4617 PSI @ 4.6 BPM. ISIP 1826 PSI, FG = 0.66. CALC PERFS OPEN @ 50.8 BPM @ 4206 PSI = 84% HOLES OPEN. (20/24 HOLES OPEN) ISIP 2470 PSI, FG = 0.74, NPI = 644 PSI. MP 5314 PSI, MR 51 BPM, AP 4255 PSI, AR 50.9 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN,</p>

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6L2AS BLUE

Spud Date: 3/16/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6K PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: COMPLETION

Start Date: 8/9/2012

End Date: 8/29/2012

Active Datum: RKB @5,234.00usft (above Mean Sea Level)

UWI: NE/SW/0/10/S/23/E/6/0/0/26/PM/S/1861/NW/0/1708/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7854' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.
								FRAC STG 5) WHP = 1791 PSI, BRK 2685 PSI @ 8.4 BPM. ISIP = 1926 PSI, FG = 0.68. CALC PERFS OPEN @ 51.2 BPM @ 3335 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN) ISIP 2082 PSI, FG = 0.70, NPI = 156 PSI. MP 5774 PSI, MR 51.2 BPM, AP 3440 PSI, AR 51 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.
								PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7663' P/U PERF AS PER DESIGN. POOH, SWMFN.
								FRAC STG 6) WHP = 1680 PSI, BRK 3511 PSI @ 4.7 BPM. ISIP 1760 PSI, FG = 0.67. CALC PERFS OPEN @ 51.1 BPM @ 4164 PSI = 79% HOLES OPEN. (19/24 HOLES OPEN) ISIP 2280 PSI, FG = 0.74, NPI = 520 PSI. MP 6895 PSI, MR 51.1 BPM, AP 4097 PSI, AR 50.9 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.
								PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7345' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW. SHUT WELL IN

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6L2AS BLUE

Spud Date: 3/16/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6K PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: COMPLETION

Start Date: 8/9/2012

End Date: 8/29/2012

Active Datum: RKB @5,234.00usft (above Mean Sea Level)

UWI: NE/SW0/10/S/23/E/6/0/0/26/PM/S/1861/W/0/1708/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
8/16/2012	7:00 - 15:00	8.00	FRAC	36	E	P		<p>FRAC STG 7) WHP = 295 PSI, BRK 3538 PSI @ 9.8 BPM. ISIP = 2045 PSI, FG = 0.71. CALC PERFS OPEN @ 51.1 BPM @ 3701 PSI = 96% HOLES OPEN. (23/24 HOLES OPEN) ISIP 2455 PSI, FG = 0.77, NPI = 410 PSI. MP 4091 PSI, MR 51.1 BPM, AP 3822 PSI, AR 50.9 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 8)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 6552' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW</p> <p>FRAC STG 8) WHP = 87 PSI, BRK 1388 PSI @ 4.7 BPM. ISIP 942 PSI, FG = 0.58. CALC PERFS OPEN @ 52.3 BPM @ 3530 PSI = 75% HOLES OPEN. (18/24 HOLES OPEN) ISIP 2129 PSI, FG = 0.76, NPI = 1187 PSI. MP 4202 PSI, MR 52.5 BPM, AP 3496 PSI, AR 52.3 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 9)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 6081' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 9) WHP = 101 PSI, COULD NOT PUMP INTO ZONE, R/U WIRELINE RIH W/ GAUGE RING, STACK OUT @ 6045', TOP PERF @ 6045',</p> <p>KILL PLUG) RIH W/ HALLIBURTON 8K CBP, SET CBP @ 5995', R/D WIRELINE AND FRAC CREW, WELL SHUT IN,</p> <p>TOTAL WATER = 8,067 BBLS TOTAL SAND = 167610 # HSM-JSA</p>
8/28/2012	7:00 - 7:15	0.25	DRLOUT	48		P		

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6L2AS BLUE

Spud Date: 3/16/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6K PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: COMPLETION

Start Date: 8/9/2012

End Date: 8/29/2012

Active Datum: RKB @5,234.00usft (above Mean Sea Level)

UWI: NE/SW/0/10/S/23/E/6/0/0/26/PM/S/1861/W/0/1708/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 15:00	7.75	DRLOUT	44	C	P		MIRU, NDWH, NUBOP, PU 3 7/8" BIT, POBS, XN SN, RIH W/ 189 JTS 2 3/8" L-80 TBG OFF FLOAT, TAG FILL @ 5,985', RU PWR SWMVEL, BRK CIRC, PRESS TEST BOP TO 3'000 PSI LOST 0 PSI IN 15 MIN. C/O 10' SAND TAG PLUG #1 @ 5,995', DRL HAL 8K CBP IN 3 MIN, 0 PSI INC, (STAGE NOT FRACED), RIH TAG FILL @ 6,036. C/O 45' SAND TAG PLUG #2 @ 6,081', DRL HAL 8K CBP IN 5 MIN, 0 PSI INC, FCP 0 PSI, RIH TAG FILL @ 6,502'. C/O 50' SAND TAG PLUG #3 @ 6,552', DRL HAL 8K CBP IN 4 MIN, 50 PSI INC, FCP 50 PSI, CIRC WELL CLEAN, SWMFL.
8/29/2012	-							
	7:00 - 7:15	0.25	DRLOUT	48		P		HSM-JSA

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6L2AS BLUE

Spud Date: 3/16/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-6K PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: COMPLETION

Start Date: 8/9/2012

End Date: 8/29/2012

Active Datum: RKB @5,234.00usft (above Mean Sea Level)

UWI: NE/SW0/10/S/23/E/6/0/0/26/PM/S/1861/W/0/1708/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 12:00	4.75	DRLOUT	44	C	P		<p>SICP 1350 PSI, OPEN WELL CONT PU TBG RIH TAG FILL @ 7,325'.</p> <p>C/O 20' SAND TAG PULG #4 @ 7,345', DRL HAL 8K CBP IN 6 MIN, 200 PSI INC, FCP 150 PSI, RIH TAG FILL @ 7,638'.</p> <p>C/O 25' SAND TAG PLUG #5 @ 7,663', DRL HAL 8K CBP IN 4 MIN, 100 PSI INC, FCP 200 PSI, RIH TAG FILL @ 7,824'.</p> <p>C/O 30' SAND TAG PLUG #6 @ 7,854', DRL HAL 8K CBP IN 5 MIN, 200 PSI INC, FCP 350 PSI, RIH TAG FILL @ 8,079'.</p> <p>C/O 30' SAND TAG PLUG #7 @ 8,109', DRL HAL 8K CBP IN 5 MIN, 200 PSI INC, FCP 450 PSI, RIH TAG FILL @ 8,298'.</p> <p>C/O 20, SAND TAG PLUG #8 @ 8,318', DRL HAL 8K CBP IN 6 MIN, 100 PSI INC, FCP 500 PSI, RIH TAG FILL @ 8,461'.</p> <p>C/O 30' SAND TAG PLUG #9 @ 8,491', DRL HAL 8K CBP IN 5 MIN, 200 PSI INC, FCP 600 PSI, RIH TAG FILL @ 8,749'.</p> <p>C/O 50' SAND TO PBTD @ 8,799', CIRC WELL CLEAN, RD PWR SWVEL, POOH LD 17 JTS TBG LAND TBG W/ 261 JTS 2 3/8" L-80 EOT @ 8,285.28', RD FLOOR & TBG EQUIP, NDBOP, NUWH, DROP BALL POBS @ 2,000 PSI, LET BIT FALL 30 MIN TURN OVER TO FBC, SITP 400 PSI, SICP 2,500 PSI, RDMO.</p> <p>KB-15' HANGER-.83' 261 JTS 2 3/8" L-80-8,267.25' POBS W/ XN SN-2.20' EOT @ 8,285.28'</p> <p>DEL 283 JTS USED 261 JTS RET 22 JTS</p> <p>TWTR=8,407 BBLS TWR=2,667 BBLS TWLTR=5,740 BBLS</p>
	12:00 - 12:00	0.00	DRLOUT	50				<p>WELL TURNED TO SALES @ 13:25 HR ON 8/29/2012. 4400 MCFD, 1680 BWPD, FCP 2602#, FTP 2292#, 20/64" CK.</p>
8/31/2012	7:00 -			50				<p>WELL IP'D ON 8/31/12 - 2530 MCFD, 0 BWPD, 0 BOPD, CP 2464#, FTP 1781#, LP 137#, 24 HRS, CK 20/64</p>
9/1/2012	-							

Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_BONANZA 1023-6K PAD
Well: BONANZA 1023-6L2AS
Wellbore: BONANZA 1023-6L2AS
Section:
SHL:
Design: BONANZA 1023-6L2AS (wp01)
Latitude: 39.975816
Longitude: -109.372038
GL: 5219.00
KB: 15' RKB + 5219' GL @ 5234.00ft

FORMATION TOP DETAILS			
TVDPath	MDPath	Formation	
4272.00	4506.50	WASATCH	
4872.00	5112.06	top of cylinder	
6427.00	6667.09	MESAVERDE	
8619.00	8859.13	SEGO	

WELL DETAILS: BONANZA 1023-6L2AS						
+N/-S	+E/-W	Northing	Ground Level: Easting	5219.00 Latitude	Longitude	Slot
0.00	0.00	14521401.70	2096512.68	39.975816	-109.372038	

CASING DETAILS			
TVD	MD	Name	Size
2411.71	2525.94	8-5/8"	8-5/8"

T

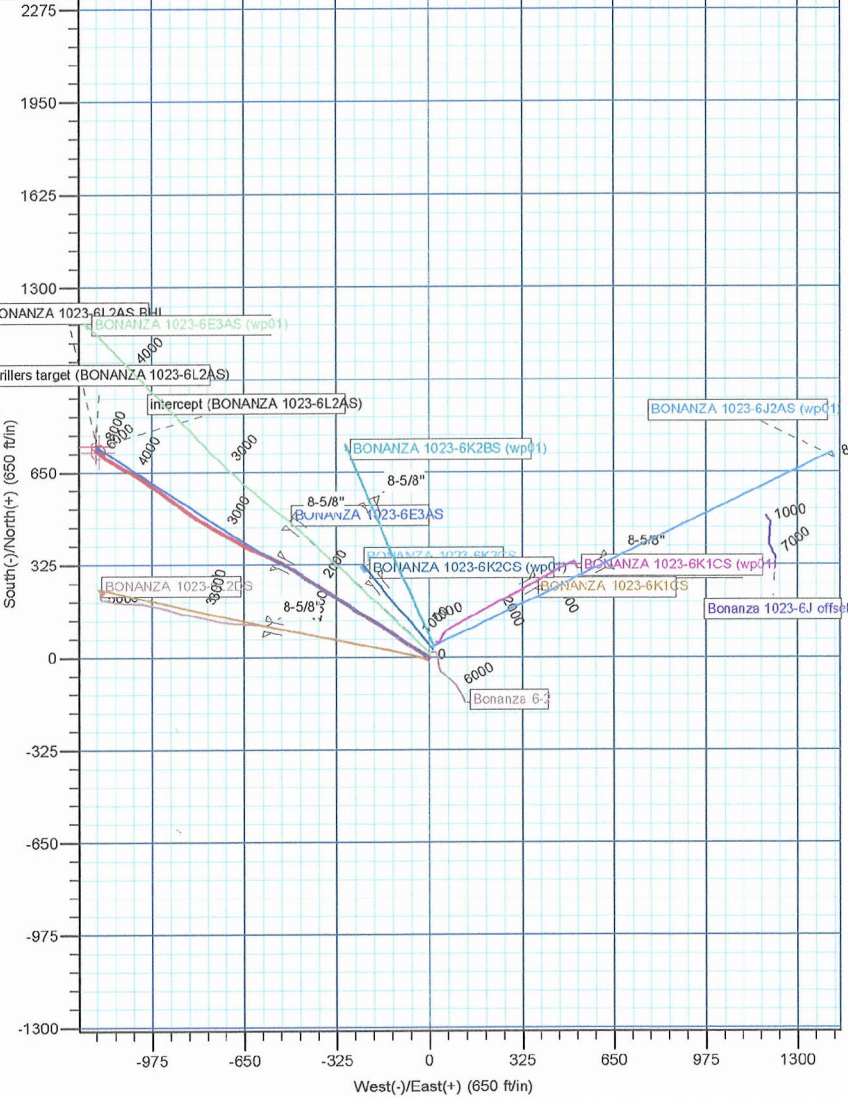
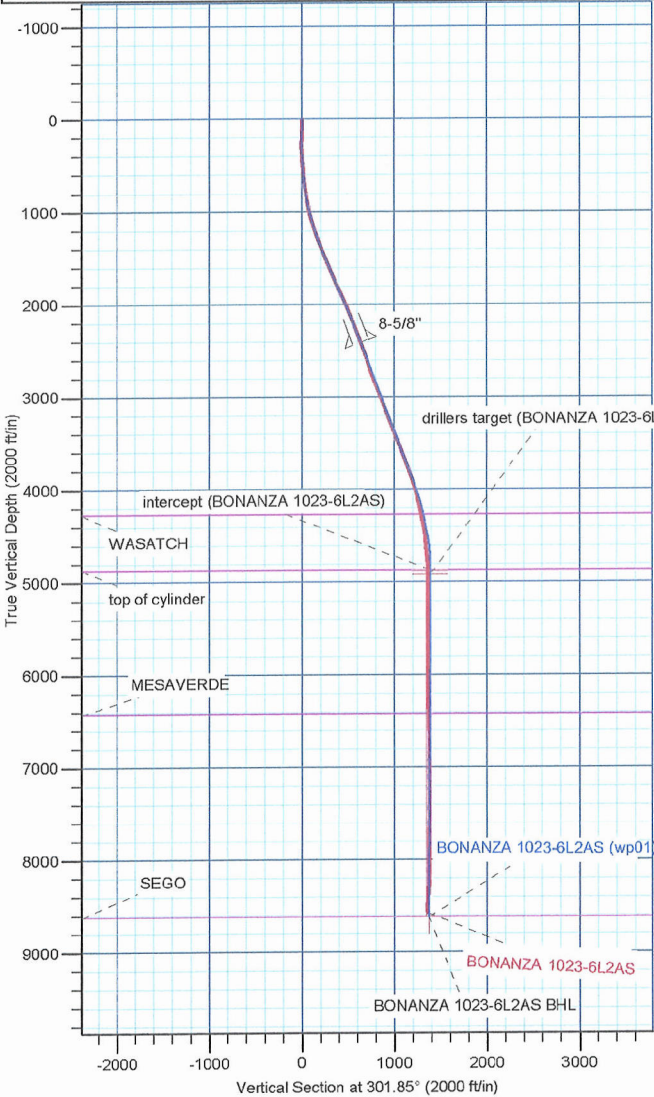
M

Azimuths to True North
Magnetic North: 10.91°

Magnetic Field
Strength: 52249.3snT
Dip Angle: 65.85°
Date: 4/12/2012
Model: IGRF2010

DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
intercept (BONANZA 1023-6L2AS)	4872.00	742.81	-1173.73	14522122.96	2095325.49	39.977855	-109.376227	Point	
drillers target (BONANZA 1023-6L2AS)	4916.50	743.00	-1174.02	14522123.14	2095325.19	39.977856	-109.376228	Circle (Radius: 15.00)	
BONANZA 1023-6L2AS BHL	8619.00	723.00	-1164.02	14522103.33	2095335.56	39.977801	-109.376192	Circle (Radius: 25.00)	

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	
2492.00	20.75	298.15	2379.97	335.93	-529.96	0.00	0.00	627.44	
2642.00	20.75	298.15	2520.24	361.00	-576.82	0.00	0.00	680.47	
2987.34	20.75	303.03	2843.21	423.21	-682.06	0.50	92.31	802.69	
4119.12	20.75	303.03	3901.58	641.73	-1018.23	0.00	0.00	1203.56	
5156.57	0.00	0.00	4916.50	743.00	-1174.02	2.00	180.00	1389.33	
5273.75	0.35	153.42	5033.68	742.68	-1173.86	0.30	153.42	1389.02	
8859.13	0.35	153.42	8619.00	723.00	-1164.02	0.00	0.00	1370.28	



US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

UINTAH_BONANZA 1023-6K PAD

BONANZA 1023-6L2AS

BONANZA 1023-6L2AS

Design: BONANZA 1023-6L2AS

Standard Survey Report

04 September, 2012

Andarko Petroleum Corporation

Survey Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well BONANZA 1023-6L2AS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	15' RKB + 5219' GL @ 5234.00ft
Site:	UINTAH_BONANZA 1023-6K PAD	MD Reference:	15' RKB + 5219' GL @ 5234.00ft
Well:	BONANZA 1023-6L2AS	North Reference:	True
Wellbore:	BONANZA 1023-6L2AS	Survey Calculation Method:	Minimum Curvature
Design:	BONANZA 1023-6L2AS	Database:	edmp

Project	- UTAH - UTM (feet), NAD27, Zone 12N		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	UINTAH_BONANZA 1023-6K PAD				
Site Position:		Northing:	14,521,392.52 usft	Latitude:	39.975791
From:	Lat/Long	Easting:	2,096,508.54 usft	Longitude:	-109.372053
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	1.05 °

Well	BONANZA 1023-6L2AS					
Well Position	+N/-S	0.00 ft	Northing:	14,521,401.70 usft	Latitude:	39.975816
	+E/-W	0.00 ft	Easting:	2,096,512.58 usft	Longitude:	-109.372038
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,219.00 ft

Wellbore	BONANZA 1023-6L2AS				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/12/2012	10.91	65.85	52,249

Design	BONANZA 1023-6L2AS				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	6.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	6.00	0.00	0.00	302.07	

Survey Program	Date	9/4/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
236.00	2,492.00	Survey #1 (BONANZA 1023-6L2AS)	MWD	MWD - STANDARD	
2,625.00	8,855.00	Survey #2 (BONANZA 1023-6L2AS)	MWD	MWD - STANDARD	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
6.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	
236.00	0.88	169.74	235.99	-1.74	0.31	-1.19	0.38	0.38	0.00	
327.00	0.93	286.59	326.99	-2.21	-0.27	-0.95	1.69	0.05	128.41	
417.00	2.81	305.09	416.93	-0.74	-2.77	1.96	2.17	2.09	20.56	
511.00	4.31	305.71	510.75	2.65	-7.53	7.79	1.60	1.60	0.66	
605.00	6.16	306.41	604.35	7.70	-14.46	16.34	1.97	1.97	0.74	
699.00	7.56	299.47	697.68	13.74	-23.90	27.55	1.73	1.49	-7.38	
794.00	9.06	299.29	791.68	20.47	-35.86	41.26	1.58	1.58	-0.19	
888.00	10.64	302.19	884.29	28.72	-49.66	57.33	1.76	1.68	3.09	
981.00	12.75	302.90	975.36	38.87	-65.55	76.18	2.27	2.27	0.76	

Andarko Petroleum Corporation

Survey Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well BONANZA 1023-6L2AS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	15' RKB + 5219' GL @ 5234.00ft
Site:	UINTAH_BONANZA 1023-6K PAD	MD Reference:	15' RKB + 5219' GL @ 5234.00ft
Well:	BONANZA 1023-6L2AS	North Reference:	True
Wellbore:	BONANZA 1023-6L2AS	Survey Calculation Method:	Minimum Curvature
Design:	BONANZA 1023-6L2AS	Database:	edmp

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,074.00	15.21	305.53	1,065.60	51.53	-84.10	98.62	2.73	2.65	2.83
1,167.00	17.15	305.01	1,154.91	66.49	-105.26	124.50	2.09	2.09	-0.56
1,261.00	18.99	304.83	1,244.27	83.18	-129.16	153.62	1.96	1.96	-0.19
1,355.00	20.65	303.71	1,332.70	101.11	-155.51	185.46	1.81	1.77	-1.19
1,451.00	22.03	302.09	1,422.11	120.08	-184.84	220.39	1.56	1.44	-1.69
1,545.00	23.85	299.91	1,508.88	138.92	-216.26	257.01	2.14	1.94	-2.32
1,641.00	23.30	301.05	1,596.66	158.39	-249.35	295.39	0.74	-0.57	1.19
1,736.00	23.21	304.65	1,683.95	178.72	-280.84	332.88	1.50	-0.09	3.79
1,832.00	24.71	302.63	1,771.68	200.30	-313.31	371.85	1.78	1.56	-2.10
1,925.00	23.30	302.46	1,856.63	220.66	-345.20	409.68	1.52	-1.52	-0.18
2,020.00	24.27	302.02	1,943.56	241.09	-377.60	447.99	1.04	1.02	-0.46
2,114.00	22.77	303.69	2,029.75	261.43	-409.12	485.50	1.75	-1.60	1.78
2,208.00	23.83	302.98	2,116.08	281.85	-440.19	522.67	1.17	1.13	-0.76
2,303.00	22.13	302.46	2,203.54	301.91	-471.39	559.75	1.80	-1.79	-0.55
2,398.00	20.58	299.91	2,292.02	319.84	-500.96	594.33	1.90	-1.63	-2.68
2,492.00	20.75	298.15	2,379.97	335.93	-529.96	627.46	0.69	0.18	-1.87
tie on									
2,625.00	18.54	291.55	2,505.24	354.82	-570.41	671.76	2.35	-1.66	-4.96
2,716.00	18.74	292.79	2,591.46	365.79	-597.35	700.41	0.49	0.22	1.36
2,807.00	19.56	296.46	2,677.43	378.25	-624.46	730.00	1.60	0.90	4.03
2,898.00	20.75	298.57	2,762.86	392.74	-652.26	761.25	1.53	1.31	2.32
2,988.00	22.44	298.19	2,846.54	408.48	-681.40	794.31	1.88	1.88	-0.42
3,079.00	22.50	298.94	2,930.63	425.11	-711.95	829.02	0.32	0.07	0.82
3,170.00	20.88	300.69	3,015.18	441.82	-741.13	862.62	1.92	-1.78	1.92
3,260.00	19.31	299.57	3,099.70	457.35	-767.87	893.52	1.80	-1.74	-1.24
3,351.00	20.25	301.44	3,185.33	472.99	-794.39	924.30	1.25	1.03	2.05
3,442.00	20.63	303.32	3,270.61	490.01	-821.23	956.08	0.83	0.42	2.07
3,533.00	21.69	305.94	3,355.47	508.68	-848.24	988.88	1.56	1.16	2.88
3,624.00	22.69	306.44	3,439.73	528.98	-875.97	1,023.16	1.12	1.10	0.55
3,714.00	22.31	306.19	3,522.88	549.38	-903.72	1,057.51	0.44	-0.42	-0.28
3,805.00	20.94	305.44	3,607.47	569.01	-930.91	1,090.97	1.54	-1.51	-0.82
3,896.00	20.13	306.07	3,692.69	587.66	-956.82	1,122.83	0.92	-0.89	0.69
3,986.00	19.38	305.69	3,777.39	605.49	-981.47	1,153.18	0.85	-0.83	-0.42
4,077.00	18.63	302.94	3,863.43	622.20	-1,005.93	1,182.78	1.28	-0.82	-3.02
4,168.00	17.44	300.32	3,949.96	636.99	-1,029.90	1,210.95	1.58	-1.31	-2.88
4,258.00	16.63	300.69	4,036.01	650.37	-1,052.62	1,237.30	0.91	-0.90	0.41
4,349.00	13.63	300.69	4,123.85	662.49	-1,073.04	1,261.05	3.30	-3.30	0.00
4,440.00	12.19	299.44	4,212.55	672.69	-1,090.63	1,281.36	1.61	-1.58	-1.37
4,531.00	9.75	295.57	4,301.88	680.73	-1,105.95	1,298.62	2.80	-2.68	-4.25
4,622.00	9.06	299.94	4,391.65	687.64	-1,119.11	1,313.44	1.09	-0.76	4.80
4,712.00	8.06	303.94	4,480.65	694.70	-1,130.48	1,326.82	1.29	-1.11	4.44
4,803.00	7.50	309.94	4,570.82	702.07	-1,140.33	1,339.08	1.08	-0.62	6.59
4,894.00	5.31	316.44	4,661.24	708.94	-1,147.79	1,349.05	2.53	-2.41	7.14

Andarko Petroleum Corporation

Survey Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well BONANZA 1023-6L2AS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	15' RKB + 5219' GL @ 5234.00ft
Site:	UINTAH_BONANZA 1023-6K PAD	MD Reference:	15' RKB + 5219' GL @ 5234.00ft
Well:	BONANZA 1023-6L2AS	North Reference:	True
Wellbore:	BONANZA 1023-6L2AS	Survey Calculation Method:	Minimum Curvature
Design:	BONANZA 1023-6L2AS	Database:	edmp

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,984.00	3.38	315.19	4,750.98	713.84	-1,152.53	1,355.67	2.15	-2.14	-1.39
5,075.00	3.06	316.32	4,841.84	717.50	-1,156.09	1,360.63	0.36	-0.35	1.24
5,166.00	1.31	324.44	4,932.77	720.10	-1,158.38	1,363.95	1.95	-1.92	8.92
5,257.00	0.81	322.82	5,023.75	721.46	-1,159.37	1,365.51	0.55	-0.55	-1.78
5,348.00	1.75	324.94	5,114.73	723.11	-1,160.56	1,367.39	1.03	1.03	2.33
5,438.00	1.19	324.82	5,204.70	725.00	-1,161.89	1,369.52	0.62	-0.62	-0.13
5,529.00	0.81	321.57	5,295.68	726.27	-1,162.83	1,371.00	0.42	-0.42	-3.57
5,620.00	0.19	311.69	5,386.68	726.88	-1,163.34	1,371.76	0.69	-0.68	-10.86
5,711.00	0.06	199.82	5,477.68	726.93	-1,163.47	1,371.89	0.24	-0.14	-122.93
5,802.00	0.38	152.19	5,568.68	726.62	-1,163.35	1,371.62	0.38	0.35	-52.34
5,892.00	0.69	158.19	5,658.67	725.85	-1,163.01	1,370.93	0.35	0.34	6.67
5,983.00	1.00	156.32	5,749.66	724.62	-1,162.48	1,369.83	0.34	0.34	-2.05
6,074.00	1.19	150.82	5,840.65	723.07	-1,161.70	1,368.34	0.24	0.21	-6.04
6,164.00	1.50	157.57	5,930.62	721.16	-1,160.80	1,366.56	0.39	0.34	7.50
6,255.00	1.06	130.94	6,021.60	719.51	-1,159.71	1,364.76	0.80	-0.48	-29.26
6,346.00	0.56	295.07	6,112.60	719.15	-1,159.47	1,364.37	1.76	-0.55	180.36
6,437.00	0.69	265.57	6,203.59	719.29	-1,160.42	1,365.25	0.38	0.14	-32.42
6,527.00	0.63	258.57	6,293.59	719.15	-1,161.45	1,366.05	0.11	-0.07	-7.78
6,618.00	2.38	319.94	6,384.55	720.50	-1,163.16	1,368.21	2.36	1.92	67.44
6,709.00	2.81	322.44	6,475.46	723.71	-1,165.73	1,372.10	0.49	0.47	2.75
6,799.00	1.81	322.07	6,565.39	726.58	-1,167.95	1,375.50	1.11	-1.11	-0.41
6,890.00	1.56	322.44	6,656.35	728.70	-1,169.59	1,378.02	0.27	-0.27	0.41
6,981.00	0.88	300.44	6,747.33	730.03	-1,170.95	1,379.88	0.89	-0.75	-24.18
7,072.00	0.63	273.57	6,838.32	730.42	-1,172.05	1,381.01	0.47	-0.27	-29.53
7,162.00	0.25	213.44	6,928.32	730.29	-1,172.65	1,381.45	0.61	-0.42	-66.81
7,253.00	0.75	166.07	7,019.31	729.54	-1,172.62	1,381.03	0.67	0.55	-52.06
7,344.00	1.13	169.19	7,110.30	728.08	-1,172.30	1,379.99	0.42	0.42	3.43
7,434.00	0.94	170.57	7,200.29	726.48	-1,172.02	1,378.90	0.21	-0.21	1.53
7,525.00	0.88	145.82	7,291.27	725.17	-1,171.50	1,377.76	0.43	-0.07	-27.20
7,616.00	1.75	105.07	7,382.25	724.23	-1,169.77	1,375.79	1.35	0.96	-44.78
7,707.00	1.06	62.44	7,473.23	724.26	-1,167.68	1,374.04	1.33	-0.76	-46.85
7,798.00	1.31	49.94	7,564.21	725.32	-1,166.14	1,373.30	0.39	0.27	-13.74
7,889.00	1.50	59.19	7,655.18	726.60	-1,164.32	1,372.43	0.32	0.21	10.16
7,979.00	1.25	349.82	7,745.16	728.17	-1,163.48	1,372.56	1.75	-0.28	-77.08
8,070.00	0.88	352.19	7,836.14	729.84	-1,163.75	1,373.67	0.41	-0.41	2.60
8,161.00	0.31	81.19	7,927.14	730.57	-1,163.60	1,373.93	1.02	-0.63	97.80
8,252.00	0.88	116.94	8,018.13	730.29	-1,162.74	1,373.05	0.72	0.63	39.29
8,342.00	1.50	123.94	8,108.11	729.32	-1,161.14	1,371.19	0.71	0.69	7.78
8,433.00	1.75	124.19	8,199.08	727.87	-1,159.01	1,368.61	0.27	0.27	0.27
8,524.00	2.00	125.19	8,290.03	726.17	-1,156.56	1,365.63	0.28	0.27	1.10
8,615.00	2.19	124.69	8,380.97	724.27	-1,153.83	1,362.31	0.21	0.21	-0.55
8,705.00	2.63	126.57	8,470.89	722.06	-1,150.76	1,358.53	0.50	0.49	2.09
8,796.00	3.00	129.44	8,561.78	719.30	-1,147.24	1,354.09	0.43	0.41	3.15

Andarko Petroleum Corporation

Survey Report

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_BONANZA 1023-6K PAD
Well: BONANZA 1023-6L2AS
Wellbore: BONANZA 1023-6L2AS
Design: BONANZA 1023-6L2AS

Local Co-ordinate Reference: Well BONANZA 1023-6L2AS
TVD Reference: 15' RKB + 5219' GL @ 5234.00ft
MD Reference: 15' RKB + 5219' GL @ 5234.00ft
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: edmp

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,805.00	2.95	128.86	8,570.77	719.01	-1,146.88	1,353.63	0.65	-0.56	-6.44
last mwd survey									
8,855.00	2.95	128.86	8,620.70	717.39	-1,144.88	1,351.07	0.00	0.00	0.00
projection to td									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,492.00	2,379.97	335.93	-529.96	tie on
8,805.00	8,570.77	719.01	-1,146.88	last mwd survey
8,855.00	8,620.70	717.39	-1,144.88	projection to td

Checked By: _____ Approved By: _____ Date: _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU384191a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
UTU88209A2. Name of Operator
KERR MCGEE OIL & GAS ONSHORE
Contact: CARA MAHLER
Email: cara.mahler@anadarko.com8. Lease Name and Well No.
BONANZA 1023-6K2CS3. Address 1099 18TH STREET, SUITE 1800
DENVER, CO 802023a. Phone No. (include area code)
Ph: 720-929-60299. API Well No.
43-047-51468

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface NESW 1888FSL 1720FWL 39.975856 N Lat, 109.372674 W Lon

At top prod interval reported below NESW 2183FSL 1491FWL

At total depth NESW 2159FSL 1494FWL

10. Field and Pool, or Exploratory
NATURAL BUTTES11. Sec., T., R., M., or Block and Survey
or Area Sec 6 T10S R23E Mer SLB12. County or Parish
UINTAH13. State
UT14. Date Spudded
03/08/201215. Date T.D. Reached
05/17/201216. Date Completed
☐ D & A ☒ Ready to Prod.
08/24/201217. Elevations (DF, KB, RT, GL)*
5219 GL18. Total Depth: MD 8614
TVD 858219. Plug Back T.D.: MD 8558
TVD 852620. Depth Bridge Plug Set: MD
TVD21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
BHV-SD/DSN/ACTR-CBL/GR/CCL/TEMP22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7	0	40		28			
11.000	8.625 IJ-55	28.0	0	2458		575		0	
7.875	4.500 P-110	11.6	0	8603		1585		1362	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	7953							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	5687	6410	5687 TO 6410	0.360	48	OPEN
B) MESAVERDE	7105	8470	7105 TO 8470	0.360	114	OPEN
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
5687 TO 8470	PUMP 7,837 BBLs SLICK H2O & 163,400 LBS 30/50 OTTAWA SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
08/24/2012	08/26/2012	24	→	0.0	2276.0	0.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	1523	2192.0	→	0	2276	0		PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #150790 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER BIRD'S NEST MAHOGANY WASATCH MESAVERDE	1236 1505 1955 4271 6451

32. Additional remarks (include plugging procedure):

The first 210 ft. of the surface hole was drilled with a 12 7/8 in. bit. The remainder of the surface hole was drilled with an 11 in. bit. DQX csg was run from surface to 5,036 ft.; LTC csg was run from 5,036 ft. to 8,603 ft. Attached is the chronological well history, perforation report & final survey.

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7. Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #150790 Verified by the BLM Well Information System.
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal**

Name (please print) CARA MAHLER Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission) Date 09/18/2012

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217 Phone Number: (720) 929-6304

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
Various	Ponderosa Wells						UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
	18421	18519				5/1/2012	
Comments: Move the attached wells into the Ponderosa unit. All wells are WSMVD. 11/16/2012							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

JAIME SCHARNOWSKE

Name (Please Print)

Signature

REGULATORY ANALYST

Title

11/8/2012

Date

RECEIVED

NOV 08 2012

Well Name	Quarter/Quarter	Section	Township	Range	APUI Number	County	New Entity Number	Formation
BONANZA 1023-6J2AS	NESW	6	10S	23E	4304751465	Uintah	18519	WSMVD
BONANZA 1023-6K1CS	NESW	6	10S	23E	4304751466	Uintah	18519	WSMVD
BONANZA 1023-6K2BS	NESW	6	10S	23E	4304751467	Uintah	18519	WSMVD
BONANZA 1023-6K2CS	NESW	6	10S	23E	4304751468	Uintah	18519	WSMVD
BONANZA 1023-6L2AS	NESW	6	10S	23E	4304751469	Uintah	18519	WSMVD
BONANZA 1023-6L2DS	NESW	6	10S	23E	4304751470	Uintah	18519	WSMVD
BONANZA 1023-6O1BS	SWSE	6	10S	23E	4304751473	Uintah	18519	WSMVD
BONANZA 1023-6O2DS	SWSE	6	10S	23E	4304751474	Uintah	18519	WSMVD
BONANZA 1023-6O3AS	SWSE	6	10S	23E	4304751475	Uintah	18519	WSMVD
BONANZA 1023-6P2BS	SWSE	6	10S	23E	4304751476	Uintah	18519	WSMVD
BONANZA 1023-6P3CS	SWSE	6	10S	23E	4304751478	Uintah	18519	WSMVD
BONANZA 1023-5J2DS	NESW	5	10S	23E	4304752063	Uintah	18519	WSMVD
BONANZA 1023-5K1BS	NESW	5	10S	23E	4304752064	Uintah	18519	WSMVD
BONANZA 1023-5K1CS	NESW	5	10S	23E	4304752065	Uintah	18519	WSMVD
BONANZA 1023-5K3DS	NESW	5	10S	23E	4304752066	Uintah	18519	WSMVD
BONANZA 1023-5L1DS	NESW	5	10S	23E	4304752067	Uintah	18519	WSMVD
BONANZA 1023-5L4AS	NESW	5	10S	23E	4304752068	Uintah	18519	WSMVD
BONANZA 1023-5L4DS	NESW	5	10S	23E	4304752069	Uintah	18519	WSMVD
BONANZA 1023-5O2AS	NESW	5	10S	23E	4304752070	Uintah	18519	WSMVD
BONANZA 1023-5E3BS	SWNW	5	10S	23E	4304752071	Uintah	18519	WSMVD
BONANZA 1023-5E3CS	SWNW	5	10S	23E	4304752072	Uintah	18519	WSMVD
BONANZA 1023-5L1AS	SWNW	5	10S	23E	4304752073	Uintah	18519	WSMVD
BONANZA 1023-5L3BS	SWNW	5	10S	23E	4304752074	Uintah	18519	WSMVD
BONANZA 1023-5M1AS	SWSW	5	10S	23E	4304752075	Uintah	18519	WSMVD
BONANZA 1023-5M1CS	SWSW	5	10S	23E	4304752076	Uintah	18519	WSMVD
BONANZA 1023-5M3BS	SWSW	5	10S	23E	4304752077	Uintah	18519	WSMVD
BONANZA 1023-5M3CS	SWSW	5	10S	23E	4304752078	Uintah	18519	WSMVD
BONANZA 1023-5N3CS	SWSW	5	10S	23E	4304752079	Uintah	18519	WSMVD
BONANZA 1023-5O4BS	SESE	5	10S	23E	4304752082	Uintah	18519	WSMVD
BONANZA 1023-5P1AS	SESE	5	10S	23E	4304752083	Uintah	18519	WSMVD
BONANZA 1023-5P1CS	SESE	5	10S	23E	4304752084	Uintah	18519	WSMVD
BONANZA 1023-5P4CS	SESE	5	10S	23E	4304752085	Uintah	18519	WSMVD
BONANZA 1023-5C4AS	NENW	5	10S	23E	4304752089	Uintah	18519	WSMVD
BONANZA 1023-5F2CS	NENW	5	10S	23E	4304752090	Uintah	18519	WSMVD
BONANZA 1023-5F3AS	NENW	5	10S	23E	4304752091	Uintah	18519	WSMVD
BONANZA 1023-5C2CS	NWNW	5	10S	23E	4304752092	Uintah	18519	WSMVD
BONANZA 1023-5D2DS	NWNW	5	10S	23E	4304752093	Uintah	18519	WSMVD
BONANZA 1023-5D3AS	NWNW	5	10S	23E	4304752094	Uintah	18519	WSMVD
BONANZA 1023-5E2AS	NWNW	5	10S	23E	4304752095	Uintah	18519	WSMVD
BONANZA 1023-6A1CS	NWNW	5	10S	23E	4304752096	Uintah	18519	WSMVD
BONANZA 1023-6I3AS	SWNW	5	10S	23E	4304752387	Uintah	18519	WSMVD
BONANZA 11-2	SWNW	11	10S	23E	4304734773	Uintah	18519	WSMVD
BONANZA 1023-6E4AS	SENE	6	10S	23E	4304751453	Uintah	18519	WSMVD
BONANZA 1023-6F1AS	SENE	6	10S	23E	4304751454	Uintah	18519	WSMVD
BONANZA 1023-6F1CS	SENE	6	10S	23E	4304751455	Uintah	18519	WSMVD
BONANZA 1023-6F4CS	SENE	6	10S	23E	4304751456	Uintah	18519	WSMVD
BONANZA 1023-6G2AS	SENE	6	10S	23E	4304751457	Uintah	18519	WSMVD
BONANZA 1023-6G4CS	SENE	6	10S	23E	4304751458	Uintah	18519	WSMVD
BONANZA 1023-6A3DS	SENE	6	10S	23E	4304751459	Uintah	18519	WSMVD
BONANZA 1023-6G1DS	SENE	6	10S	23E	4304751460	Uintah	18519	WSMVD
BONANZA 1023-6H1BS	SENE	6	10S	23E	4304751461	Uintah	18519	WSMVD
BONANZA 1023-6H2CS	SENE	6	10S	23E	4304751462	Uintah	18519	WSMVD
BONANZA 1023-6I2AS	SENE	6	10S	23E	4304751463	Uintah	18519	WSMVD
BONANZA 1023-6I3DS	SWSE	6	10S	23E	4304751471	Uintah	18519	WSMVD
BONANZA 1023-6J4AS	SWSE	6	10S	23E	4304751472	Uintah	18519	WSMVD
BONANZA 1023-6P3AS	SWSE	6	10S	23E	4304751477	Uintah	18519	WSMVD